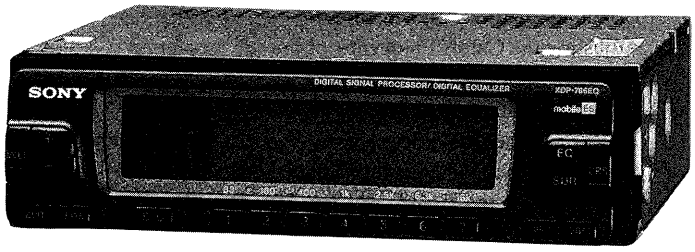
XDP-766EQ

SERVICE MANUAL

US Model
Canadian Model



SPECIFICATIONS

Center frequencies	63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz
Boost/cut range	±12 dB
Sub woofer LPF	Cutoff frequencies 78 Hz, 99 Hz, 125 Hz, 157kHz, 198kHz
	Slope –48 dB/oct
Frequency response	20Hz – 20 kHz ($^{+0}_{-1}$ dB)
Signal to noise ratio	more than 85 dB
Distortion	0.008%
Gain	0 dB
Input	Line input RCA pin jacks
Output	Line output RCA pin jacks
Power supply	12 V DC car battery (Negative ground)
Current drain	0.6 A
Dimensions	Approx. 178 × 50 × 170 mm ($7\,^1/_8 \times 2 \times 6\,^3/_4$ in.) (w/h/d) not incl. projecting parts and controls
Mounting dimensions	Approx. 178 × 50 × 153 mm ($7\,^1/_8 \times 2 \times 6\,^1/_8$ in.) (w/h/d) not incl. projecting parts and controls
Mass	Approx. 0.7 kg (1 lb. 9 oz.)
Supplied accessories	Parts for installation and connections (1)
Optional accessories	BUS cable (RCA pin cord equipped) RC-61 (1m), RC-62(2m) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m)

Design and specifications subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents.

DIGITAL SIGNAL PROCESSOR

SONY®

TABLE OF CONTENTS

Section	*Title*	*Page*
	Specifications	1
1.	**GENERAL**	
	Location and Function of controls	3
	Changing the Spectrum Analyzer Displays	3
	Listening Position Adjustment	4
	Adjusting the Cutoff Frequency of the sub woofer (s)	4
	What is the DSP File Function ?	5
	Listening with the DSP File	5
	Registering the DSP Files	5
	Registering the DSP File onto Discs	7
	Listening with the same DSP File Mode Every Time	8
	Installation	8
	Connection	9
2.	**EXPLANATION OF IC TERMINALS**	11
3.	**DIAGRAMS**	
	3-1. Block Diagram	20
	3-2. Printed Wiring Boards (Main Section)	24
	3-3. Schematic Diagram (Main Section)	27
	3-4. Printed Wiring Boards (LCD Section)	32
	3-5. Schematic Diagram (LCD Section)	34
	3-6. IC Block Diagrams	37
4.	**EXPLODED VIEW**	39
5.	**ELECTRICAL PARTS LIST**	40

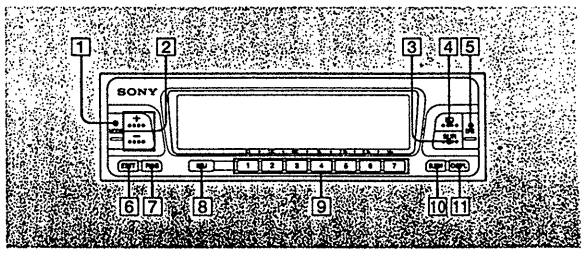
Notes on chip component replacement

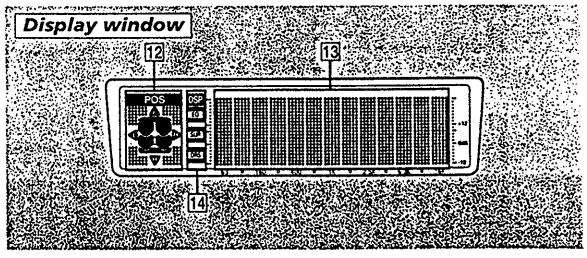
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Location and Function of Controls





See the pages in ● for details.

1 **MODE button** ❼❽❾❿⓫⓬
Press to select the spectrum analyzer display patterns or the respective modes set by the sound image setting. Use this button for registering the DSP file name.

2 **+/– (level adjust) button** ❻❼❽❾❿⓫⓬⓭
Press to adjust each level, or select each mode in their respective settings.

3 **SUR button** ⓲
This button functions as the surround mode on/off button.

4 **EQ button** ⓱
Press to turn on/off the equalizing mode.

5 **DRS button** ⓳
Press to turn on/off the dynamic range suppressing mode.

6 **EDIT button** ❶❺❻❽❾⓫
Press to register the DSP file or to select the adjusting mode while the DSP file is registering.

7 **POS button** ❹❿
Press to adjust or change the desired listening position.

8 **S/U (Sony original DSP file/user's DSP file select) button** ⓰
Press to switch between the Sony original DSP file and the user's DSP file mode.

9 **Preset number/frequency select buttons** ❶❷❸❹❺
Press to select the memorized DSP file or to register a DSP file.

10 **SUB. W (sub woofer LPF cutoff frequency select) button** ⓯
Press to select the LPF cutoff frequency of the sub woofer's output.

11 **DSPL (spectrum analyzer display select) button** ❽
Press to change the spectrum analyzer display to either include the character indication or not.

12 **POS display section**
Displays the currently selected listening position. This section flashes while the unit is in the fine adjustment mode of the listening position.

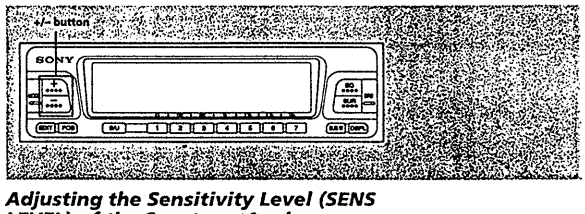
13 **Spectrum analyzer/equalizer sound curve display section**
The character information or the file name is displayed on the upper section, and the spectrum analyzer or the graphic equalizer is displayed on the lower section of the display window.

14 **DSP indicator display section**
Indicates whether the respective DSP function is activated or not.

DSP EQ ←	Lights up while the graphic equalizer function is activated. Press EQ button to turn on/off the function.
DSP SUR ←	Lights up while the surround function is activated. Press SUR button to turn on/off the function.
DSP DRS ←	Lights up while the DRS function is activated. Press DRS button to turn on/off the function.

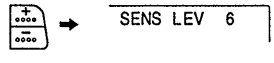
Spectrum Analyzer Function

Changing the Spectrum Analyzer Displays



Adjusting the Sensitivity Level (SENS LEVEL) of the Spectrum Analyzer

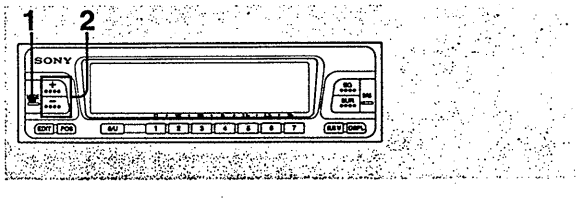
Press the +/– button.



(The "SENS LEV" indication will appear on the display window.)

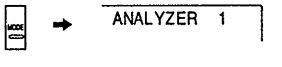
You can adjust the level of the oscillation in 11 steps.
(The larger the figure of the SENS LEV becomes, the higher the sensitivity of the spectrum analyzer is.)

Note
If the "SENS LEV 0" indication appears on the display window, the spectrum analyzer will not be displayed.



Changing the Display Patterns

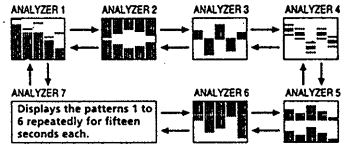
1 **Press the MODE button.**



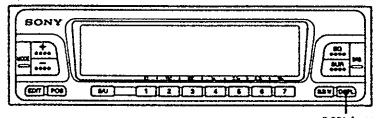
2 **Press either the + or – button, and select the desired display pattern.**

You can choose from seven patterns.
Each time you press the button, the display pattern changes as follows:

Spectrum analyzer display patterns



Changing the Spectrum Analyzer Displays



Erasing the Character Indication

Press the DSPL button

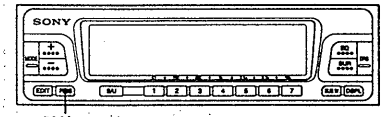
The character indication on the upper section of the display window goes out, then the display shows the full spectrum analyzer display.

To return to the display with the character indication, press the DSPL button again.

Changing the Colors of the Illumination

The illumination color of this unit is linked to the illumination color of the main unit. Therefore, use the master unit to select the color of the illumination.

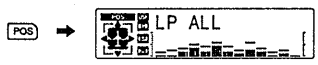
Listening Position Adjustment



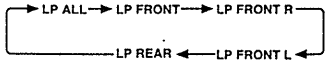
Even in an imperfect listening environment such as inside a car, it is possible to simulate a natural sound field so that a listener can feel as if he is sitting in the middle of the sound field regardless of his position inside the car.

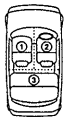
Selecting the Listening Positions

Press the POS button, and select the desired listening position.



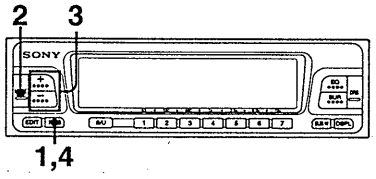
Each time you press the POS button, the indication on the display window changes cyclically as follows:





Display window	Center of sound field
LP ALL	Normal setting (①+②+③)
LP FRONT	Front part (①+②)
LP FRONT R	Front right (②)
LP FRONT L	Front left (①)
LP REAR	Rear part (③)

Listening Position Adjustment



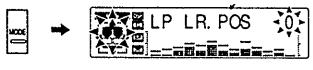
With each listening position, you can set the center of the sound field more specifically.

Setting the Listening Position More Specifically

1 **Press the POS button for more than two seconds, then the unit enters the fine adjustment mode.**

POS

2 **Press the MODE button and select the desired position to be adjusted more finely.**



Display window	Contents of adjustment
LP LR. POS 0 (Left and right adjustment)	The center of the sound field is adjusted finely to the left or to the right. (16 steps either way.)
LP FR. POS 0 (Front and rear adjustment)	The center of the sound field is adjusted finely toward the front or toward the rear. (16 steps either way.)
LP L ••••• II ••••• R (Left and right-Balance)	The balance of the left and right speakers' levels is adjusted. (8 steps either way.)
LP F ••••• II ••••• R (Front and rear-Fader)	The balance of the front and rear speakers' levels is adjusted. (8 steps either way.)

3 **Press the + or – button to adjust the level.**

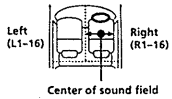
4 **Press the POS button for more than two seconds to complete the setting.**

POS

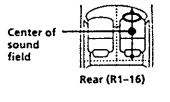
Note

Set the balance and fader controls on the master unit to the center position. If the setting of the balance or fader control is not set at the center position on the master unit, the sound may not come out of the speakers on both sides. The setting of the sound field may not become possible.

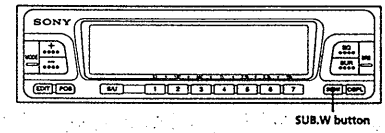
For example, to finely adjust the listening position between left and right with the "LP FRONT R" position, select and adjust the "LP LR. POS 0" indication on the display window.



For example, to finely adjust the listening position between front and rear with the "LP FRONT R" position, select and adjust the "LP FR. POS 0" indication on the display window.

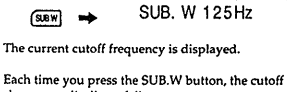


Adjusting the Cutoff Frequency of the Sub Woofer(s)



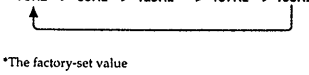
To match the characteristics of the connected sub woofer(s), you can cut the unwanted high and middle frequency audio signals going into the sub woofer(s). The frequency at which the audio signal is cut off is called the cutoff frequency. By setting the cutoff frequency, the sub woofer(s) is(are) able to output clearer bass whose frequency range is lower than the selected cutoff frequency. Thus creating the sound image without the variance of the phases caused by input frequencies.

Press the SUB.W button



The current cutoff frequency is displayed.

Each time you press the SUB.W button, the cutoff frequency changes cyclically as follows:



*The factory-set value

DSP File Function

What is the DSP File Function?

You can put some sound effects on a tape, disc or radio sound with this unit.

What is the DSP (Digital Signal Processor)?

A built-in mechanism that converts the analog input sound to digital signals. With the DSP's high-speed computing process, the acoustic characteristics of the sound field can be freely altered while controlling the audio output.

What is the DSP File?

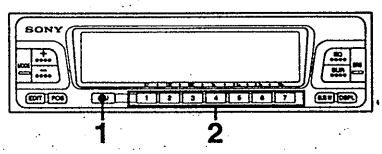
A collective file that includes the settings of the equalizer sound curve, the surround menu and the DRS effect level. There are seven factory-set Sony original DSP files available with this unit. Further seven customized user's DSP files can be registered as well.

DSP File Edit Mode

Set the following selecting / adjusting modes and register them with the user's DSP file menu. (See page 14 onward.)

- File name (See page 15.)
- Equalizer sound curve adjusting mode (See page 16.)
- Surround menu selecting mode (See page 18.)
- DRS effect level adjusting mode (See page 20.)

Listening with the DSP File



A selection can be made from your own customized DSP files or the seven Sony original DSP files stored on the preset buttons. (See the next page about how to register your own customized DSP file.)

1 **Press the S/U button to select the desired DSP file from the Sony original DSP file menu (S1–S7) or the user's DSP file menu (U1–U7).**

S/U

2 **Press the preset number button on which the desired DSP file is stored.**

1 ~ 7 ➡ S1 Heavy

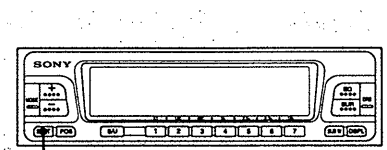
(For example, when you have selected the preset number button 1 with the Sony original DSP file menu.)

When the TV tuner unit (sold separately) and the TV monitor (sold separately) are connected, the name of the selected DSP file will be displayed on the monitor. However, the name of the file will be displayed with capital letters.

Sony original DSP file menu

S1 Heavy	Powerful sound with boosted bass and treble.
S2 Mellow	Soft and balanced sound featuring mid-bass.
S3 Vocal	Rhythmical sound featuring vocal.
S4 Dynamic	Wide range sound featuring vocal and bass.
S5 Disc Jockey	Studio-like sound with the human voice made easier to listen to.
S6 Relaxation	Warm and relaxing sound suitable for listening to background music.
S7 Loudness	Natural sound suitable to the human ear with bass and treble boosted even in low volume.

Registering the DSP Files



A total of seven customized DSP files (file name, equalizer sound curve, surround menu and DRS effect level) can be stored in memory, one each on the preset number buttons 1 to 7.

Basic Procedure of Registering the DSP File

1 **Select a program source from tape, CD, MD, AUX, VIDEO, TV or radio with the master unit.**

2 **Press the EDIT button for more than two seconds to enter the DSP file edit mode.**

EDIT

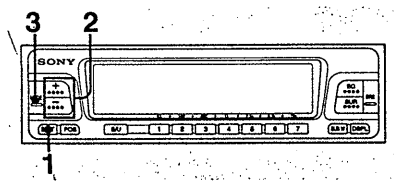
Each time you press the EDIT button quickly, the indication on the display window changes cyclically as follows:

File name → Equalizer sound curve → Surround menu → DRS effect level → File name

Then store the file name, equalizer sound curve, surround menu and DRS effect level by following the procedures described on and after the next page.

Note

Do not use the DSP button on the master unit even if it is equipped with one. Use the buttons on this unit to operate.



Registering the File Name

1 **Enter the DSP file edit mode by referring to steps 1 to 2 in "Basic Procedure of Registering the DSP File". (See the previous page.)**

EDIT ➡ S1 Heavy

2 **Press the + or – button to select a character or number for naming.**

The character can be selected in the following order.

+ ➡ _ → A → B → C → ··· → X → Y → Z → a → b → c → ··· → x → y → z → 0 → 1 → 2 → ··· → 7 → 8 → 9 → ! → " → # → ··· → > → ? → _

– ➡ _ → ? → > → ··· → # → " → ! → 9 → 8 → 7 → ··· → 2 → 1 → 0 → z → y → x → ··· → c → b → a → Z → Y → X → ··· → C → B → A → _

When you want to input a space, select " _ "(under-bar).

3 **Press the MODE button to move the flashing part to the next character.**

"U" denotes the user's customized memory.

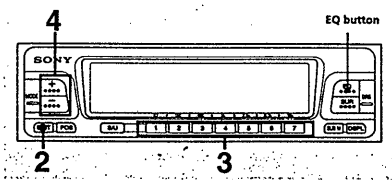
MODE ➡ U: Heavy

Repeat steps 2 and 3. Up to ten characters can be input.

- If you press the MODE button while the furthest right character (10th character) is flashing, the flashing part moves to the furthest left character.
- When the TV tuner unit (sold separately) and the TV monitor (sold separately) are connected, the name of the selected DSP file will be displayed on the monitor. However, the name of the file will be displayed with capital letters.

4 **Press the EDIT button quickly to move on to the next setting procedure, or finish registering the DSP file by referring to page 21.**

Registering the DSP Files



You can adjust the tone quality in seven bands.

Adjusting the Sound with the Graphic Equalizer

1 **Enter the DSP file edit mode by referring to steps 1 to 2 in "Basic Procedure of Registering the DSP File". (See page 14.)**

2 **Press the EDIT button quickly to enter the equalizer sound curve setting mode.**

EDIT ➡ EQ 63 Hz +3

3 **Press the preset number button (1 to 7) whose frequency you want to adjust.**

1 ~ 7

Preset number button	Frequency	
1	63Hz	To adjust heavy bass
2	160Hz	To clarify and boost bass.
3	400Hz	To enhance the basic range of musical instruments and vocal.
4	1kHz	To enhance vocal.
5	2.5kHz	To enhance the brightness of brass instruments and the crispness of percussive instruments.
6	6.3kHz	To enhance light touch.
7	16kHz	To boost treble.

Note
Ensure to turn on the equalizer function before adjusting the equalizer sound curve. (Check that the "EQ" indication is displayed on the display window.)

To turn on and off the graphic equalizer function, press the EQ button.

4 **Press the + or – button to adjust the level of the selected frequency.**

The equalizing level of the frequency can be adjusted in twelve steps either way using the + and - buttons.

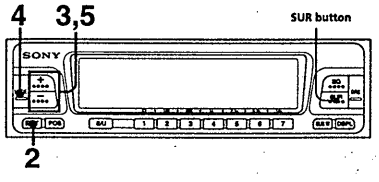
5 **Press the EDIT button quickly to move on to the next setting procedure, or finish registering the DSP file by referring to page 21.**

Note
If "EQ" indication is not displayed when you finish registering the DSP file, the file will be memorized without the graphic equalizer effect.

When the sound is distorted.

Depending on the frequency you adjust, the sound may become distorted when you increase the level too much. In such a case, press and hold the SEL button and then the preset number button 8 on the master unit. (Press the same buttons again to cancel the effect.) The volume may be lowered, but the distorted sound will be improved. At this time the oscillation of the spectrum analyzer may become lessened but you can adjust the sensitivity of the spectrum analyzer. (See "Adjusting the Sensitivity Level (SENS LEVEL) of the Spectrum Analyzer" on page 6.)

Registering the DSP Files



There are seven factory-set surround menus available with this unit. By selecting the surround menu which matches the type of music you play, you can enjoy the enhanced presence and ambience of the music even in an acoustically constricted space such as inside a car.

Selecting the Surround Menu

1 **Enter the DSP file edit mode by referring to steps 1 to 2 in "Basic Procedure of Registering the DSP File". (See page 14.)**

2 **Press the EDIT button quickly to enter the surround menu setting mode.**

EDIT ➡ SUR DISCO

3 **Each time you press the + or – button, the surround menu changes cyclically as follows.**

DISCO → THEATER → CHURCH → HALL → STADIUM → KARAOKE → STUDIO

The list of surround menu

STADIUM	Atmosphere of an outdoor stadium.
DISCO	Atmosphere of a disco with hard walls and floor.
THEATER	Atmosphere of a movie theater.
CHURCH	Atmosphere of a church with a lot of reverberation.
HALL	Atmosphere of a concert hall.
STUDIO	Atmosphere of a recording studio with little reverberation.
KARAOKE	With decreased vocal.

Note
Ensure to turn on the equalizer function before adjusting the equalizer sound curve. (Check that "SUR" indication is displayed on the display window.)

To turn on and off the surround function, press the SUR button.

4 **Press the MODE button to enter the surround effect level adjustment mode.**

MODE ➡ SUR E. LEV 1

You can adjust the effect level in 10 steps. (The larger the figure becomes, the more effective the surround effect becomes.)

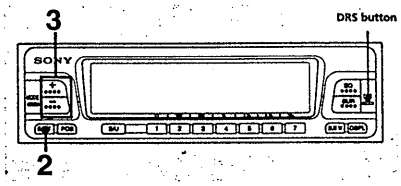
5 **Press the + or – button to adjust the surround effect level.**

If you press the MODE button, the display returns to the surround menu setting mode.

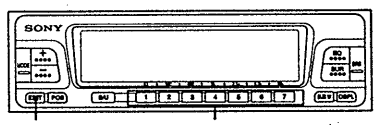
6 **Press the EDIT button quickly to move on to the next setting procedure, or finish registering the DSP file by referring to page 21.**

Note
If "SUR" indication is not displayed when you finish registering the DSP file, the file will be memorized without the surround effect.

Registering the DSP Files



The built-in DRS (Dynamic Range Suppressor) compresses the dynamic range of input signal to increase the average output level without distortion. This function is useful for achieving dynamic sound with small output levels in a noisy environment such as inside a car.



Adjusting the DRS Effect Level

1 **Enter the DSP file edit mode by referring to steps 1 to 2 in "Basic Procedure of Registering the DSP File". (See page 14.)**

2 **Press the EDIT button quickly to enter the DRS effect level adjustment mode.**

EDIT ➡ DRS E. LEV 6

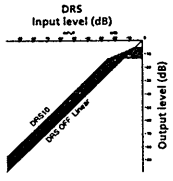
3 **Press the + or – button to adjust the DRS effect level.**

The effect level can be adjusted in 10 steps. The larger the level becomes, the larger the compression ratio also becomes, and the difference between loud and low sound becomes lesser.

4 **Press the EDIT button quickly to move on to the next setting procedure, or finish registering the DSP file by referring to page 21.**

Note
Ensure to turn on the DRS function before adjusting the DRS. (Check that the "DRS" indication is displayed on the display window.)

To turn on and off the DRS function, press the DRS button.



Note
If the "DRS" indication is not displayed when you finish registering the DSP file, the file will be memorized without the DRS effect.

Memorizing the DSP File

When you have completed the settings mentioned in the previous pages, memorize the settings onto the preset number buttons.

Press one of the preset number buttons 1 to 7 on which you want to store the DSP file for more than two seconds.

1 ~ 7 ➡ U1 SONY

For example, to memorize a file named "SONY" on preset number button 1.

The set sound field is memorized on the preset number button (U1 – U7), and the registration of the DSP file is completed.

If you do not want to memorize the preset number, press the EDIT button for more than two seconds.

EDIT ➡ U⁝ SONY

The content of the setting will not be memorized.

To memorize the sound field currently played.

Just press one of the preset number buttons 1 to 7 for more than two seconds.

Notes
- The file name, equalizer sound curve, surround menu and DRS effect level are memorized as a set. You cannot memorize only a setting of an individual item such as the file name or equalizer sound curve. If you want to memorize a setting of an individual item only, register all the rest of the setting items with the respective effects turned off.
- You can alter the contents of the Sony original DSP files freely and reregister them as the customized user's DSP files.
- If you try to memorize a file onto a preset number button whose memory is already occupied, the previous memory will be erased.

Registering the DSP File onto Discs

– DSP Custom File Function (With the Optional CD Changer(s) Connected)

Once you have registered the DSP file onto the discs, you can enjoy the same DSP file every time you play these discs.

Use the master unit to do this operation.

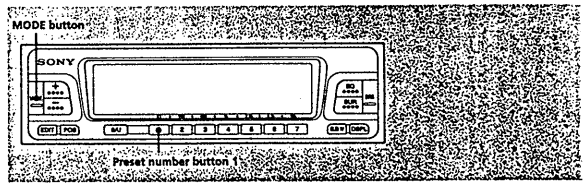
1 Play any disc.
2 Press the FILE or the LIST button on the master unit for more than two seconds to enter the name edit mode.
If "_ _ _ _ _ _ _ _" indication appears on the main display window of the master unit, put a title onto the disc by referring to "Displaying the Title of Each Disc" in the operating manual of the master unit.
3 Press the FILE or the LIST button on the master unit lightly twice to enter the DSP custom file registering mode.
4 Press the +/- buttons on the master unit to select the desired user's DSP file.
Each time you press the + or - button, the preset number and file name appear on the display window of this unit as follows (only the file name will appear on the window of the master unit):

+ ➡ ···U1→U2→U3→U4→U5→U6→U7→NO ENTRY→U1···

– ➡ ···U1→NO ENTRY→U7→U6→U5→U4→U3→U2→U1···

5 Press the FILE or the LIST button on the master unit for more than two seconds.

Notes
- Before registering the DSP custom file, make sure that you have put the titles onto the discs. (Refer to the operation instructions manual of the master unit.)
- You cannot use this function unless a CD changer equipped with the custom file function is connected to the master unit.
- The buttons on this unit do not function while you are registering the DSP custom file.



Playing with the DSP Custom File Mode

While playing a disc, press and hold the MODE button and then press the preset number button 1.

MODE + 1 ➡ DSP FILE ON

To return to the normal CD play mode, press and hold the MODE button and then the preset number button 1 again.

To change the registered DSP file

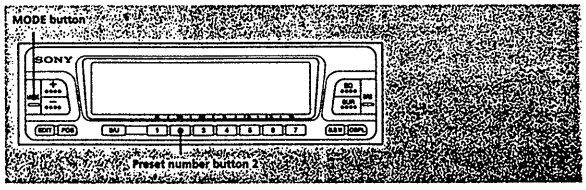
Select the disc whose preset number you wish to alter and repeat steps 2 to 5 on the previous page.

To erase the registered DSP file

Select "NO ENTRY" in step 4 on the previous page.

Note
Do not use the DSP button on the master unit even if it is equipped with one. Use the buttons on this unit to operate.

Listening with the Same DSP File Mode Every Time – *LSM (Last Sound Memory) Function*

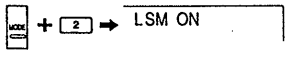


What is the LSM (last sound memory) function?

This function memorizes the selected DSP file of each program source at all times. With this function, you can always listen to the same program source with the same DSP file even after changing the program source or turning the unit on afresh.

Playing with the LSM Function

Press and hold the MODE button and then press the preset number button 2.



If you wish to cancel the LSM function, press and hold the MODE button and then press the preset number button 2 again.

For example, you have listened to the sources in the following order; a disc in " S2 " mode then a tape in "U3" mode and then the radio in "U2" mode. If you then listen to a disc again, the DSP file number changes to "S2" automatically. If you then listen to a tape after that, the DSP file number changes to "U3".

Notes

- While the LSM function is activated, if you play discs in the DSP custom file mode (page 22), the discs will be played in the respective user's DSP files automatically.
- The LSM button on the master unit does not function even if it is equipped with one. Use the buttons on this unit to operate the LSM function.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

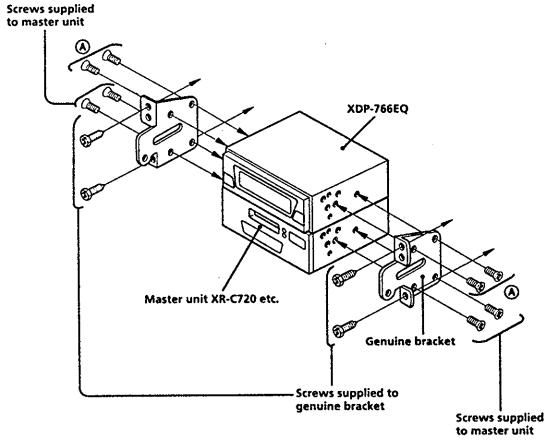
Mounting angle adjustment

- Adjust the mounting angle to less than 20°.
- When the installation and connections are over, make sure that all the electric devices such as, tail lamps, turning signals, horn, and wipers etc. function properly.

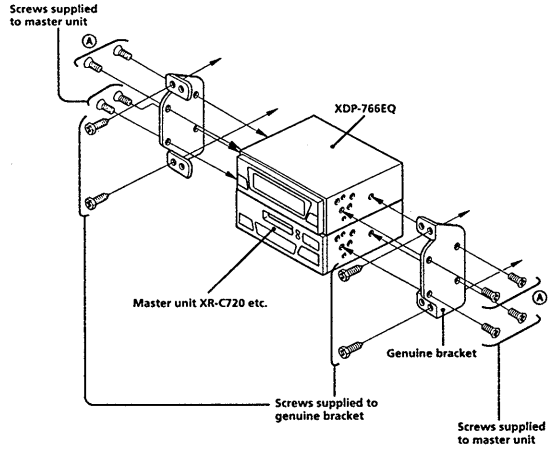
Mounting the Unit in a Japanese Car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your nearest Sony dealer.

TOYOTA

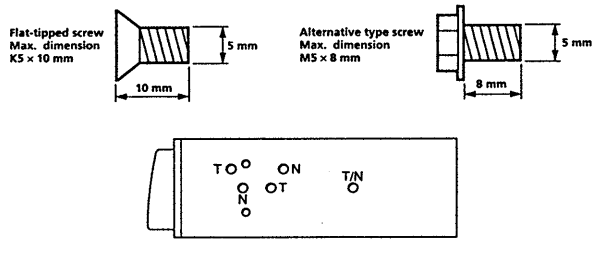


NISSAN



Note

When you are mounting the unit on to the genuine bracket, **use the supplied flat-tipped screws Ⓐ** while observing the screw holes marked T (for Toyota) or N (for Nissan) on either side of the unit. **If you are going to use other screws other than the supplied ones, be sure to use the following screws:**



Do not use longer screws as doing so can cause a malfunction of the unit.

Note

Use the existing parts supplied to your car except for Ⓐ.

Connection

Cautions

- This unit is designed for negative ground 12V DC operation only.
- Before making any connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** power input lead only after all other leads are connected, and be sure to connect it to the positive 12 V power terminal which is energized at all times.
- **Run all ground wires to a common ground point.**

Connecting leads

Yellow lead:Power input lead. Connect it to the more than 5 A power terminal energized at all times.

Black lead:Ground wire. Connect it to a metal point of the car.

Blue/white striped lead:Amplifier remote control lead.

Fuse

If a fuse in the power lead blows, check the connections first. Then replace the fuse with a new one whose amperage rating is the same. Never use a fuse whose amperage is larger than the specified one or substitute it with a wire, as doing so can be extremely dangerous.

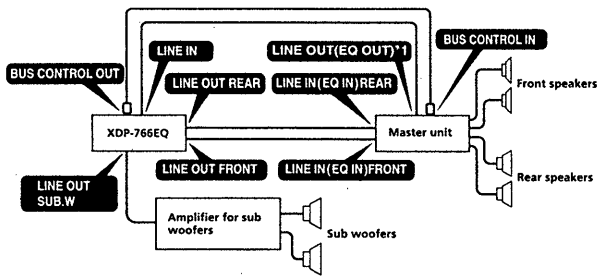
Notes

- Be sure to set the fader control of the master unit to the center position when using this unit.
- Be sure to refer to the Installation/Connections manual of the equipment to be connected as well.

System connection Diagram

Example 1 (When connecting a master unit and sub woofers)

If your master unit is equipped with the LINE-OUT/IN SELECT switch make sure that it is set to position ❷. Likewise if the master unit is equipped with the LINE OUT/EQ IN switch, set it to the EQ IN position.

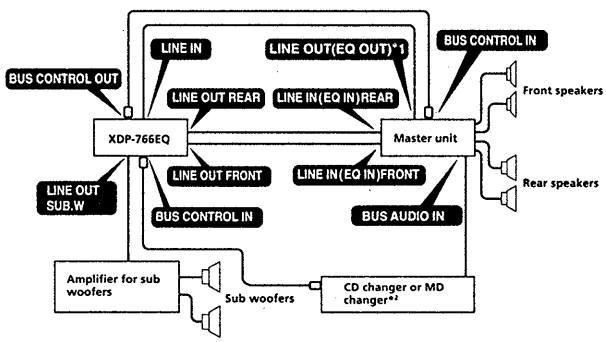


*1 Some models have "LINE OUT" or "EQ OUT" indication on the switch.

Example 2 (When connecting a master unit, sub woofers and a CD changer or a MD changer)

If your master unit is equipped with the LINE-OUT/IN SELECT switch make sure that it is set to position ❷. Likewise if the master unit is equipped w

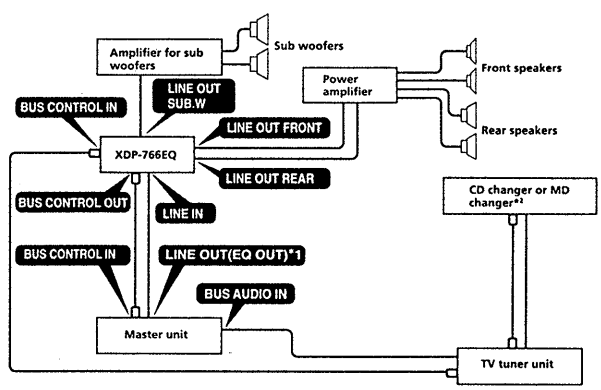
ith the LINE OUT/EQ IN switch, set it to the EQ IN position.



*1 Some models have "LINE OUT" or "EQ OUT" indication on the switch.
*2 For details about the connection to the MD changer, refer to the operating instructions of the MD changer.

Example 3 (When connecting a master unit, TV tuner, a CD changer or a MD changer, a power amplifier and sub woofers)

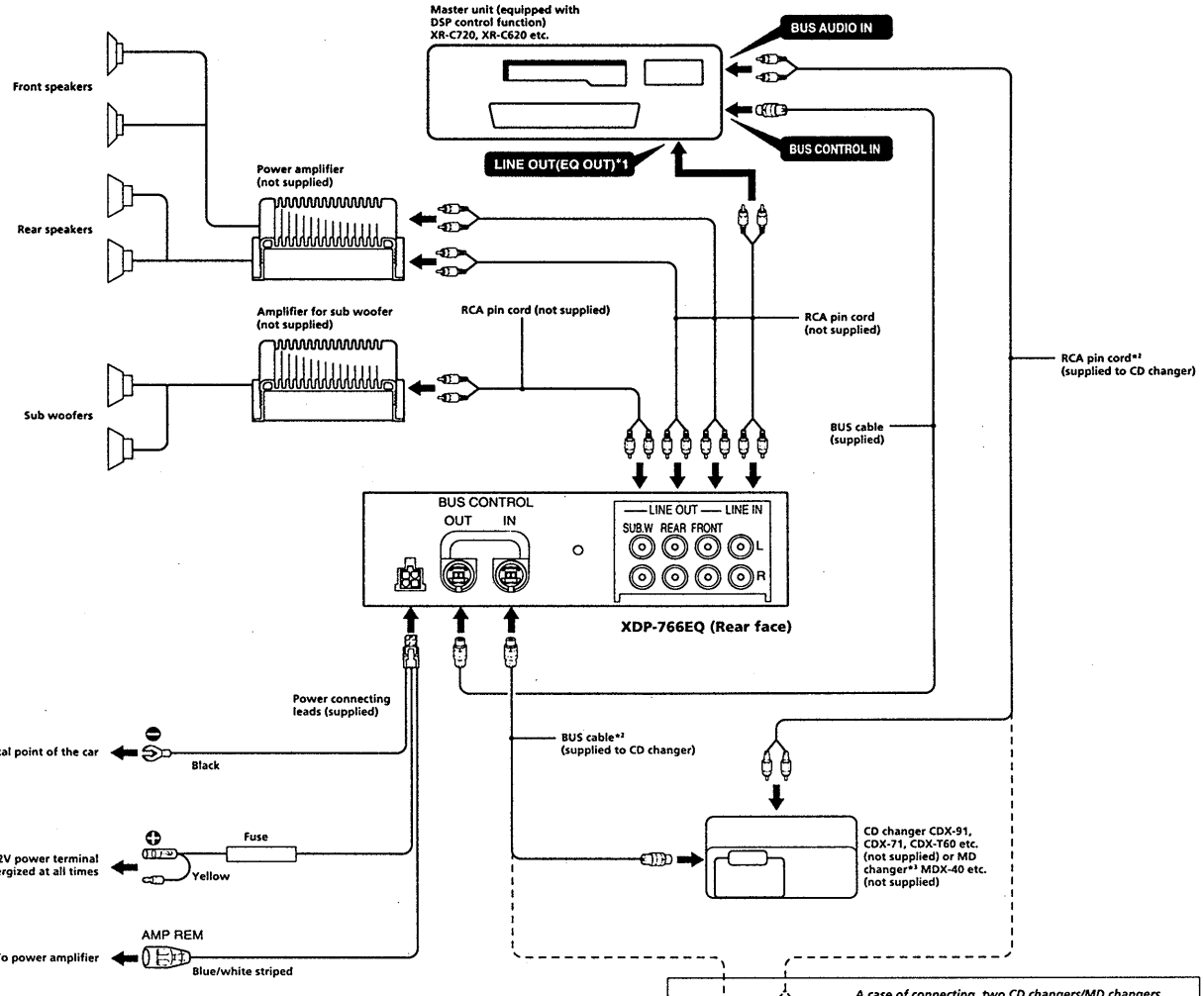
If your master unit is equipped with the LINE-OUT/IN SELECT switch make sure that it is set to position ❷. Likewise if the master unit is equipped with the LINE OUT/EQ IN switch, set it to the EQ IN position.

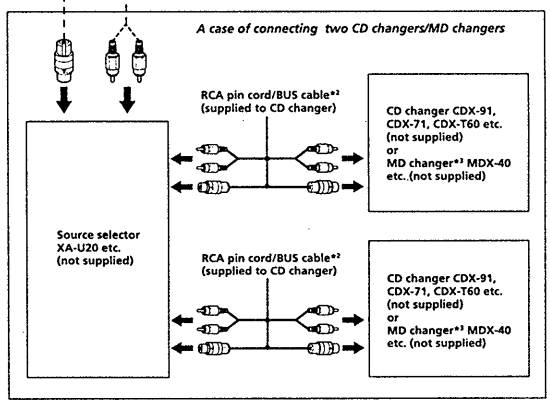


*1 Some models have "LINE OUT" or "EQ OUT" indication on the switch.
*2 For details about the connection to the MD changer, refer to the operating instructions of the MD changer.

Example 4 (A case of connecting a master unit, sub woofers, power amplifiers and a CD changer or a MD changer)

If your master unit is equipped with the LINE-OUT/IN SELECT switch make sure that it is set to position ❷. Likewise if the master unit is equipped with the LINE OUT/EQ IN switch, set it to the EQ IN position.


Master unit (equipped with DSP control function) XR-C720, XR-C620 etc.
BUS AUDIO IN
BUS CONTROL IN
LINE OUT(EQ OUT)*1
Front speakers
Rear speakers
Power amplifier (not supplied)
Amplifier for sub woofer (not supplied)
Sub woofers
RCA pin cord (not supplied)
RCA pin cord (not supplied)
RCA pin cord*2 (supplied to CD changer)
BUS cable (supplied)
BUS CONTROL
OUT IN
LINE OUT — LINE IN
SUB.W REAR FRONT
L
R
XDP-766EQ (Rear face)
Power connecting leads (supplied)
To a metal point of the car
Black
To the +12V power terminal which is energized at all times
Fuse
Yellow
AMP REM
To power amplifier
Blue/white striped
BUS cable*2 (supplied to CD changer)
CD changer CDX-91, CDX-71, CDX-T60 etc. (not supplied) or MD changer*3 MDX-40 etc. (not supplied)


A case of connecting two CD changers/MD changers
RCA pin cord/BUS cable*2 (supplied to CD changer)
CD changer CDX-91, CDX-71, CDX-T60 etc. (not supplied) or MD changer*3 MDX-40 etc.(not supplied)
Source selector XA-U20 etc. (not supplied)
RCA pin cord/BUS cable*2 (supplied to CD changer)
CD changer CDX-91, CDX-71, CDX-T60 etc. (not supplied) or MD changer*3 MDX-40 etc. (not supplied)

If you connect two or more CD changers, the source selector XA-U20 or XA-U40 is required.

*1 Some models have "LINE OUT" or "EQ OUT" indication on the switch.
*2 Use the connecting cords and cables supplied to the CD changer. Otherwise use the optional RC-61 (1m) or RC-62 (2m).
*3 For details about the connection to the MD changer, refer to the operating instructions of the MD changer.

SECTION 2
EXPLANATION OF IC TERMINALS

IC302 TC9332F

Pin No.	Pin name	I/O	Description
1 – 3	NC	–	Not used. (OPEN)
4	V_{DD}	–	Power supply terminal. (+5V)
5	V_{SS}	–	Power supply terminal. (GND)
6 – 11	NC	–	Not used. (OPEN)
12	VSSR	–	Power terminal for internal delay RAM (DLRAM). (GND)
13	VDDR	–	Power terminal for internal delay RAM (DLRAM). (+5V)
14	V_{SS}	–	Power supply terminal. (GND)
15	SD02	O	Output terminal for serial data. (Not used in this unit)
16	SD01	O	Output terminal for serial data. (Not used in this unit)
17	SDO1	O	Output terminal for serial data.
18	SDI1	I	Input terminal for serial data.
19	SDI0	I	Input terminal for serial data. (GND connection for this unit)
20	LR	O	Output terminal for LR clock. (1fs) (Not used in this unit)
21	WCK	O	Output terminal for Word clock. (2fs) (Not used in this unit)
22	FS32	O	Output terminal for Bit clock. (32fs) (Not used in this unit)
23	FS64	O	Output terminal for Bit clock. (64fs) (Not used in this unit)
24	EBC0	I	Output terminal for Bit clock.
25	EBCI1	I	Output terminal for Bit clock.
26	EBCI0	I	Output terminal for Bit clock. (GND connection for this unit)
27	ELR0	I	Input terminal for LR clock.
28	ELRI1	I	Input terminal for LR clock.
29	ELRI0	I	Input terminal for LR clock.
30	SYNC	I	Input terminal for synchronization signal.
31	V_{DD}	–	Power supply terminal. (+5V)
32	X1	I	Input terminal for crystal oscillation radiator/terminal for external clock. (GND connection for this unit)
33	X0	O	Terminal for crystal oscillation radiator. (Not used in this unit)
34	V_{SS}	–	Power supply terminal. (GND)
35	CKSL	I	Switching terminal for oscillation clock. "L": 384fs, "H": 512fs
36	PLOFF	I	Switching terminal for X'tal oscillation mode/VCO oscillation mode. "L": Built-in VCO oscillation mode, "H": X'tal oscillation mode
37	PD	O	Output terminal for data with comparison phase.
38	VSSA	–	Analog power supply terminal. (GND)
39	AMPO	O	Amplifier output terminal for low-pass filter.
40	AMPI	I	Amplifier input terminal for low-pass filter.

Pin No.	Pin name	I/O	Description
41	ADDA	–	Analog power supply terminal. (+5V)
42 – 44	NC	–	Not used. (OPEN)
45	$\overline{RST}$	I	Input terminal for reset signal.
46	$\overline{CS}$	I	Input terminal for chip select.
47	IFCD	I	Selection terminal for command or data input mode from microcomputer. "H": Command, "L": Data
48	IFDI	I	Input terminal for microcomputer data.
49	IFDO	O	Data output terminal for data bus.
50	IFCK	I	Shift clock input terminal for microcomputer data.
51	$\overline{ACK}$	O	Acknowledge signal output terminal for microcomputer.
52	V_{SS}	–	Power supply terminal. (GND)
53 – 60	NC	–	Not used. (OPEN)

IC305 μ PD780114GC-663-AB8

Pin No.	Pin name	I/O	Description
1	LINKOFF	O	Output terminal for link-off control. Outputs "L" when UNI-LINK communication of the succeeding slave is authorized.
2	NC	–	Not used.
3	BEEP	O	Beep signal output terminal. Drives the voltage buzzer with beep sound control output.
4	LCDCE1	O	Output terminal for LCD driver slave IC serial communication authorization control. Connects to pin ③ of the $\overline{CS}$ input terminal of the μ PD7228AG (IC602) slave IC at serial communication anthorization control to LCD driver slave IC. Outputs "L" during serial communication with the LCD driver slave IC.
5	LCDCE0	O	Output terminal for LCD driver master IC serial communication authorization control. Connects to pin ⑨ of the $\overline{CS}$ input terminal of the μ PD7228AG (IC601) master IC at serial communication authorization control to the LCD driver master IC. Outputs "L" during serial communication with the LCD driver master IC.
6	LCDXCK	O	Output terminal for LCD driver IC operation clock. Connects to pin ㊶ of the clock input terminal of μ PD7228AG (IC601, 602) at operation clock output to the LCD driver IC. (Outputs a 524 KHz square wave at the time of LCD driver IC operation.)
7	LCDRST	O	Output terminal for LCD driver IC reset control. Connects to pin ㊵ of the reset input terminal of μ PD7228AG (IC601, 602) at reset control output to the LCD driver IC.
8	$\overline{LCDINH}$	O	Output terminal for inhibit control of the LCD driver IC display. Controls the LCD drive voltage of μ PD7228AG (IC601, 602) C and turns off all displays at display inhibit control to the LCD driver IC. Outputs "L" to forcibly turn off everything as a countermeasure against erroneous display from the time that voltage is applied to the LCD driver IC until initialization is completed.
9	Vss	–	Power supply terminal. (GND)
10	COLOR0	O	Output terminal for amber illumination light control. (Outputs "H" when the amber illumination is turned on.)
11	COLOR1	O	Output terminal for green illumination light control. (Outputs "H" when the green illumination is turned on.)
12	LEDON	O	Output terminal for LED power supply control. (Outputs "H" when power is supplied to the LED.)
13	LCDON	O	Output terminal for LCD driver IC power supply control. Outputs "H" when power is supplied to μ PD7228AD (IC601, 602) at power supply control output to the LCD driver IC.
14	LMPON	O	Output terminal for lamp power supply control. (Outputs "H" when power is supplied to the lamp.)
15	$\overline{DEMMER}$	O	Output terminal for dimmer authorization. Changes the power supply voltage applied to the lamp and controls the illumination of the LCD back light at dimmer authorization control output to the LCD back light. Outputs "H" when the dimmer is activated (When making the back light dark).
16	DSPON	O	Output terminal for DSP IC power supply control. Drives the power supply of the DC/DC converter at power supply control output to the audio circuit that includes the DSP IC. Outputs "H" when power is supplied to the sudio circuit.
17	REMON	O	Output terminal for amplifier mode control. Outputs "H" when the amplifier mode is activated at amplifier mode control output to the external power amplifier.
18	DSPACK	I	Input terminal for DSP IC serial communication acknowledgment. Connects to pin ㊶ of the $\overline{ACK}$ output terminal of DSP IC302 (TC9332F) at serial communication parity inspection input.
19	DSPSI	I	Input terminal for the DSP IC serial communication data. Connects to pin ㊾ of the IFDO output terminal of DSP IC302 (TC9332F) at serial communication data input from the DSP IC.
20	DSPSO	O	Output terminal for the DSP IC serial communication data. Connects to pin ㊽ of the IFDI input terminal (TC9332F) of DSP IC302 and to pin ⑪ of SDT input terminal IC307 (CXD2706Q) at serial communication data output to the DSP IC.
21	DSPCKO	O	Output terminal for the DSP IC serial communication clock. Connects to pin ㊽ of the IFCK input terminal (TC9332F) of DSP IC302 and to pin ⑪ of SCK input terminal IC307 (CXD2706Q) at serial communication clock output to the DSP IC.

Pin No.	Pin name	I/O	Description
22	DSPCD	O	Output terminal for DSP IC serial communication commands/data control. Connects to pin ㊼ of the IFCD input terminal of DSP IC302 (TC9332F) atserial communication command/data selection output to the DSP IC. Outputs "H" during serial communication with DSP IC TC9332F and during command transmission, and outputs "L" during data transmission.
23	DSPCE0	O	Output terminal for serial communication authorization control for DSP IC TC9332F. Connects to pin ㊽ of the CS input terminal of IC302 (TC9332F) at serial communication authorization control to DSP IC302 (TC932F). Outputs "H" during communication with DSP IC TC9332F.
24	V_{SS}	–	Power supply terminal. (GND)
25	DSPCE1	O	Output terminal for serial communication authorization control for DSP IC CXD2706Q. Connects to pin ⑨ of the $\overline{XSLD}$ input terminal of IC307 (CXD2706Q) at serial communication authorization control to the DSP IC307 (CXD2706Q). Outputs an "L" pulse as a strobe signal after completed communication with the DSP IC IC307 (CXD2706Q).
26	DSPRST	O	Output terminal for DSP IC reset control. Connects to pin ㊺ of the $\overline{RST}$ input terminal of DSP IC302 (TC9332F) and pin ⑧ of the $\overline{XCLR}$ input terminal of IC307 (CXD2706Q) at DSP IC reset control output. Outputs an "L" pulse after power supply to the DSP IC302 (TC9332F) has been initiated.
27	DSPPD	O	Output terminal for AD converter IC reset control. Connects to pin ⑩ of the PD input terminal of IC302 (AK5340) at AD converter IC301 (AK5340) reset control output. Outputs an "H" pulse after power supply to the AD converter IC has been initiated.
28	A MUTE	O	Output terminal for analog muting control. (Outputs "L" when the analog muting is activated.)
29	ATTFON	O	Output terminal for front analog attenuation control. Becomes active when the front output gain becomes lower than -18 dB at analog attenuation control output of the front output channel, and reduces digital noise by substituting the digital attenuation with analog attenuation. (Outputs "L" when analog muting is activated.)
30	ATTRON	O	Output terminal for rear analog attenuation control. Becomes active when the rear output gain becomes lower than -18 dB at analog attenuation control output of the rear output channel, and reduces digital noise by substituting the digital attenuation with analog attenuation. (Outputs "L" when analog muting is activated.)
31	MUTPW	O	Output terminal for analog muting power supply control. Supplies power to the transistors with power supply control output to analog muting and attenuation circuits, and makes possible control with $\overline{A\ MUTE}$, $\overline{ATTFON}$ and $\overline{ATTRON}$. (It is always active when power is supplied to the audio circuits, and outputs "H".)
32	D MUTE0	O	Output terminal for DSP IC307 (CXD2706Q) digital muting control. Connects to pin ⑭ of the $\overline{MUTE}$ input terminal of IC307 (CXD2706Q) at DSP IC307 (CXD2706Q) digital muting control output. Outputs "L" until initial setting of DSP IC307 (CXD2706Q) has been completed after power has been supplied to the audio circuits, and forcibly outputs the digital audio data to the D/A converter as 0 to protect against noise output.
33	D MUTE1	O	Output terminal for front digital muting control. Connects to pin ㉕ of the $\overline{MUTE}$ input terminal of the front output D/A converter IC309(PCM1710U) at digital muting control output to the front output D/A converter IC309 (PCM1710U). After having output "H" in order to maintain the internal initialization setting of PCM1710U directly after power has been supplied to the audio circuits, it outputs "L" until the DSP IC initial setting has been completed to protect against noise output.
34	D MUTE2	O	Output terminal for rear digital muting control. Connects to pin ㉕ of the $\overline{MUTE}$ input terminal of the rear output D/A converter IC309(PCM1710U) at digital muting control output to the rear output D/A converter IC309 (PCM1710U). After having output "H" in order to maintain the internal initialization setting of PCM1710U directly after power has been supplied to the audio circuits, it outputs "L" until the DSP IC initial setting has been completed to protect against noise output.
35	RESET	I	Input terminal for reset.
36	DSPBU	I	Input terminal for detection of abnormal voltage in the DSP IC power supply. Monitors the power supply to the audio circuits from the 5V power voltage of the DC/DC converter by input of abnormal voltage detection in the power supply to the DSP IC. It has a DC/DC converter power stabilizer for power supply to the audio circuits, and starts monitoring the power supply voltage. "H" is input when an abnormal voltage is detected, and the power supply of the DC/DC converter is restarted.
37	BUSON	I	Input terminal for UNI-LINK communication authorization. "L" is input as long as UNI-LINK communication is possible with UNI-LINK communication authorization input. When "H" is output at any time besides during initializing, UNI-LINK communication becomes impossible and the operation is stopped and standby operation at low electric current consumption is activated.

Pin No.	Pin name	I/O	Description
38	BU IN	I	Input terminal for detection of abnormal voltage in the backup power supply. The backup power supply voltage is constantly monitored with the input for detection of abnormal voltage in the backup power supply. "H" is output at detection of abnormal voltage and the operation is stopped, and standby operation at low electric current consumption is activated.
39	GND	–	Power supply terminal. (GND)
40	V_{DD}	–	Power supply terminal. (+5V)
41	X2	O	Crystal connection terminal for main system clock oscillation.
42	X1	I	Crystal connection terminal for main system clock oscillation.
43	V_{SS}	–	Power supply terminal. (GND)
44	NC	–	Not used.
45	GND	–	Power supply terminal. (GND)
46	AV_{SS}	–	Analog power supply terminal. (GND)
47	KEYIN	I	Key scan level input terminal. The key scan level input is judged through key input by the A/D converter built into the microcomputer.
48	SP0	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 16 kHz band-pass filter transient level input.
49	SP1	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 6.3 kHz band-pass filter transient level input.
50	SP2	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 2.5 kHz band-pass filter transient level input.
51	SP3	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 1.0 kHz band-pass filter transient level input.
52	SP4	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 400 Hz band-pass filter transient level input.
53	SP5	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 160 Hz band-pass filter transient level input.
54	SP6	I	Spectrum analyzer level input terminal. Judgment of the input level is carried out with the A/D converter built into the microcomputer at a 63 Hz band-pass filter transient level input.
55	AV_{DD}	–	Analog power supply terminal. (+5V)
56	AV_{REF}	–	Input terminal for the A/D converter standard voltage. An analog power supply of 5 V is input through the standard voltage input terminal of the A/D converter that is built into the microcomputer.
57	LCDSI	–	Not used. (GND connection for this unit)
58	LCDSO	O	Output terminal for serial communication data of the LCD driver IC. Connects to pin ㉗ of the SI input terminal of μ PD7228AG (IC601, 602) at serial communication data output to the LCD driver IC.
59	LCDCKO	O	Output terminal for serial communication clock of the LCD driver IC. Connects to pin ㉗ of the $\overline{SCK}$ input terminal of μ PD7228AG (IC601, 602) at serial communication clock output to the LCD driver IC.
60	LCDCD	O	Output terminal for serial communication command/data control of the LCD driver IC. Connects to pin ㊱ of the $\overline{CD}$ input terminal of μ PD7228AG (IC601, 602) at serial communication command/data selection control output to the LCD driver IC. "H" is output during command transmission and "L" is output during data transmission during serial communication with μ PD7228AG (IC601, 602).
61	LCDBSY	I	Input terminal for serial communication busy status of the LCD driver IC. Connects to pin ㉜ of the $\overline{BUSY}$ input terminal of μ PD7228AG (IC601, 602) at serial communication busy input from the LCD driver IC. "L" is input during serial communication busy status of the LCD driver IC.
62	UNISI	I	Input terminal for UNI-LINK serial communication data.
63	UNISO	O	Output terminal for UNI-LINK serial communication data.
64	$\overline{UNICKI}$	I	Input terminal for UNI-LINK serial communication clock.

IC307 CXD2706Q

Pin No.	Pin name	I/O	Description
1	TST	I	Tast terminal.
2	Vss	–	GND terminal.
3	XIN	I	Input terminal for crystal oscillation circuit. (24.556 MHz)
4	XOUT	O	Output terminal for crystal oscillation circuit. (24.556 MHz)
5	CKIN	I	Master ciock input terminal. Not used. (+5V connection)
6	Vss	–	GND terminal.
7	CKOT	O	Output terminal for master clock MCK. f SCK=f CKIN=½ f XT=256 fs
8	XLCR	I	Initalise terminal. "L" : actire
9	XSLD	I	Latch input terminal (active "L") for latching the serial data of the command inside the IC.
10	SCK	I	Data is inserted at startup at the SDT serial clock input terminal.
11	SDT	I	Serial data input terminal that receives the transmission of commands, system, control, etc., from the microcomputer.
12	Vss	–	GND terminal.
13	XOVF	O	Detection output for EQ calculation overflow. Not used. (GND connection)
14	MUTE	I	Mute input terminal. "L" : mute ON
15	SLIN	I	Terminal for switching of serial data input. Not used. (Open)
16	SIB	I	Input terminal B for serial data of sampling of 2 channels.
17	SIA	I	Input terminal A for serial data of sampling of 2 channels.
18	LRCK	I	Transmits L-ch data at level "H" and R-ch data at level "L" at the sampling frequency clock input terminal for serial input/output.
19	BCK	I	Serial bit clock input terminal for serial input data SIA, SIB and serial output data SOF, SOR and SOS. Serial input data is inserted at the start of this BCK, and when turning off the serial output data is selected.
20	SOF	O	Front serial data input terminal for sampling of 2 channels.
21	SOR	O	Rear serial data input terminal for sampling of 2 channels.
22	SOS	O	Sub-woofer serial data input terminal for sampling of 2 channels. The data mode has 2 complimentary 16 bits.
23	Vss	–	GND terminal.
24 – 31	NC	–	Not used. (OPEN)
32	Vss	–	GND terminal.
33	VDD	–	Power supply terminal. (+5V)
34	FE1	I/O	Front data input/output FE1 for the external RAM.
35	FE2	I/O	Front data input/output FE2 for the external RAM.
36	FOE	O	Front output enable output terminal for the external RAM.
37	FCAS	O	Front column address strobe output terminal for the external RAM.
38	FE3	I/O	Front data input/output FE3 for the external RAM.
39	FE4	I/O	Front data input/output FE4 for the external RAM.
40	FWE	O	Front light enable output terminal for the external RAM. "L" level active

Pin No.	Pin name	I/O	Description
41	FRAS	O	FRONT low address strobe output terminal for external RAM.
42	Vss	–	GND terminal.
43	FA0	O	FRONT address output terminal for external RAM FA0.
44	FA1	O	FRONT address output terminal for external RAM FA1.
45	FA2	O	FRONT address output terminal for external RAM FA2.
46	FA3	O	FRONT address output terminal for external RAM FA3.
47	FA4	O	FRONT address output terminal for external RAM FA4.
48	FA5	O	FRONT address output terminal for external RAM FA5.
49	FA6	O	FRONT address output terminal for external RAM FA6.
50	FA7	O	FRONT address output terminal for external RAM FA7.
51	FA8	O	FRONT address output terminal for external RAM FA8.
52	Vss	–	GND terminal.
53	RA8	O	REAR address output terminal for external RAM RA8.
54	RA7	O	REAR address output terminal for external RAM RA7.
55	RA6	O	REAR address output terminal for external RAM RA6.
56	RA5	O	REAR address output terminal for external RAM RA5.
57	RA4	O	REAR address output terminal for external RAM RA4.
58	RA3	O	REAR address output terminal for external RAM RA3.
59	RA2	O	REAR address output terminal for external RAM RA2.
60	RA1	O	REAR address output terminal for external RAM RA1.
61	RA0	O	REAR address output terminal for external RAM RA0.
62	RRAS	O	REAR low address strobe output terminal for external RAM.
63	Vss	–	GND terminal.
64	RWE	O	REAR light enable output terminal for the external RAM. "L" level active.
65	RE4	I/O	REAR data input/output RE4 for the external RAM.
66	RE3	I/O	REAR data input/output RE3 for the external RAM.
67	RCAS	O	REAR column address strobe output terminal for the external RAM.
68	ROE	O	REAR light enable output terminal for the external RAM.
69	RE2	I/O	REAR data input/output RE2 for the external RAM.
70	RE1	I/O	REAR data input/output RE1 for the external RAM.
71	NC	–	Not used. (OPEN)
72	Vss	–	GND terminal.
73	V_{DD}	–	Power supply terminal. (+5V)
74 – 80	NC	–	Not used. (OPEN)

IC309, 310 PCM1710U

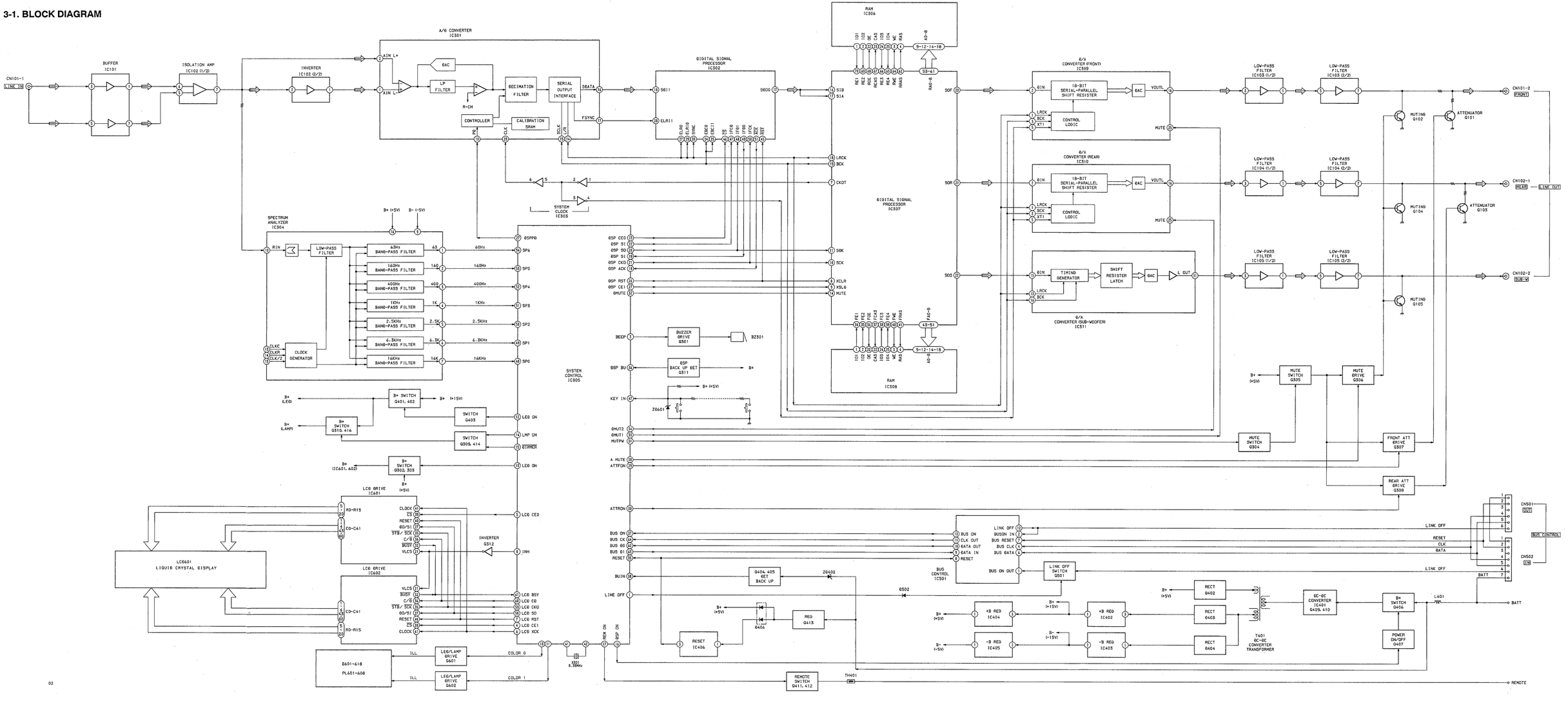
Pin No.	Pin name	I/O	Description
1	LCRIN	I	Standard sampling rate clock input. (fs)
2	DIN	I	Data input.
3	BCKIN	I	Data bit clock input.
4	CLKO	O	Not used. (OPEN)
5	XTI	I	The input of this unit is 256fs.
6	XTO	O	Open in this unit.
7	BGND	–	Digital power supply. (GND)
8	V_{DD}	–	Digital power supply. (+5V)
9	Vcc2R	–	Analog DAC power supply. (+5V), R-CH
10	AGND2R	–	Analog DAC power supply. (GND), R-CH
11	EXT1R	I	Output amp common, R-CH.
12	EXT2R	I	Output amp bias, R-CH.
13	VOUTR	O	Power supply output, R-CH.
14	AGND	–	Analog power supply. (GND)
15	Vcc	–	Analog power supply. (+5V)
16	VOUTL	O	Power supply output, L-CH.
17	EXT2L	I	Output amp bias, L-CH.
18	EXT1L	I	Output amp common, L-CH.
19	AGND2L	–	Analog DAC power supply. (GND)
20	Vcc2L	–	Analog DAC power supply. (+5V)
21	V_{DD}	–	Digital power supply. (+5V)
22	DGND	–	Digital power supply. (GND)
23	CKSL	I	The low of this unit. (256fs)
24	MODE	I	The low of this unit. (Parallel input)
25	MUTE	I	Input terminal for mute control. "L" : mute ON
26	MD/DM1	I	The low of this unit. (Deemphasis OFF)
27	MC/DM2	I	
28	ML/DSD	I	The open of this unit. (Normal speed)

IC601, 602 μPD7228AG-12

Pin No.	Pin name	I/O	Description
1 – 4	C38 – C41	O	Output terminal for LCD column drive signal terminal.
5 – 12	C42 – C49/ R15 – R8	O	LCD column/low drive signal output terminal. Designate it as eihter low or column terminal with SMM command.
13 – 20	R15 – R8/ R7 – R0	O	LCD low drive signal (R0 – R7 and R8 – R15) output terminal. Designate it as eihter low drive signal output with SMM command.
21	VLC5	I	Standard voltage input terminal for deciding voltage level of LCD low/column drive signal.
22	VLC1	I	
23	NC	–	Not used. (OPEN)
24	VLC4	I	Standard voltage input terminal for deciding voltage level of LCD low/column drive signal.
25	VLC2	I	
26	VLC3	I	
27	DO/SI	I	Input terminal for serial data.
28	D1/(P/$\overline{S}$)	I	Switching terminal for parallel/serial. "H" : Parallel, "L" : Serial
29	D2/CAE	I	Input terminal for chip address enable.
30	D3/S0	O	Output terminal for serial data.
31	SYNC	I/O	Synchronous signal input/output terminal for matching LCD drive exchange signal (low/column) phase and frame cycle.
32	$\overline{BUSY}$	O	Busy signal output terminal.
33	V_{DD}	–	Power supply terminal. (+5V)
34	V_{SS}	–	Power supply terminal. (GND)
35	$\overline{STB}/\overline{SCK}$	I	Input terminal for strobe signal/serial clock.
36	C/D	I	Input terminal for command/data. "H" : Command input, "L" : Data input
37	CA0	I	Input terminal for assigning specific addresses in order to select individual μPD7228A chips.
38	CA1	I	
39	$\overline{CS}$	I	Input terminal for low active chip select.
40	RESET	I	Input terminal for high active reset signal.
41	CLOCK	I	Input terminal for the external clock.
42	NC	–	Not used. (OPEN)
43 – 80	C0 – C37	O	Output terminal for LCD column drive signal.

SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



3-2. PRINTED WIRING BOARDS (MAIN SECTION)

● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D401	C - 13	Q201	D - 20
D402	J - 9	Q202	D - 3
D403	I - 14	Q203	D - 19
D404	I - 14	Q204	D - 4
D405	C - 10	Q205	D - 6
D406	E - 14	Q301	E - 15
D501	B - 6	Q302	D - 15
D502	C - 7	Q303	D - 15
		Q304	C - 5
		Q305	C - 6
IC101	D - 1		
IC102	E - 1	Q306	C - 17
IC103	E - 3	Q307	D - 17
IC104	E - 5	Q308	D - 17
IC105	E - 6	Q309	G - 8
		Q310	G - 8
IC201	D - 2		
IC202	E - 2	Q311	I - 7
IC203	E - 4	Q312	F - 15
IC204	E - 5	Q401	F - 13
IC205	E - 6	Q402	E - 13
		Q403	E - 13
IC301	H - 2		
IC302	I - 2	Q404	E - 9
IC303	H - 3	Q405	E - 10
IC304	E - 14	Q406	E - 10
IC305	G - 9	Q407	E - 13
		Q409	J - 13
IC306	I - 6		
IC307	I - 5	Q410	I - 10
IC308	I - 3	Q411	D - 13
IC309	G - 4	Q412	D - 13
IC310	G - 5	Q413	D - 13
		Q414	G - 13
IC311	G - 7		
IC401	H - 10	Q416	F - 13
IC402	H - 15	Q501	C - 7
IC403	H - 15		
IC404	E - 15	ZD301	B - 5
		ZD305	J - 7
IC405	F - 15	ZD401	F - 13
IC406	E - 8	ZD402	D - 9
IC501	C - 6	ZD403	D - 10
		ZD405	D - 14
Q101	D - 20	ZD501	B - 16
Q102	D - 3	ZD502	B - 16
Q103	D - 19	ZD503	B - 6
Q104	D - 4		
Q105	D - 5		

Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

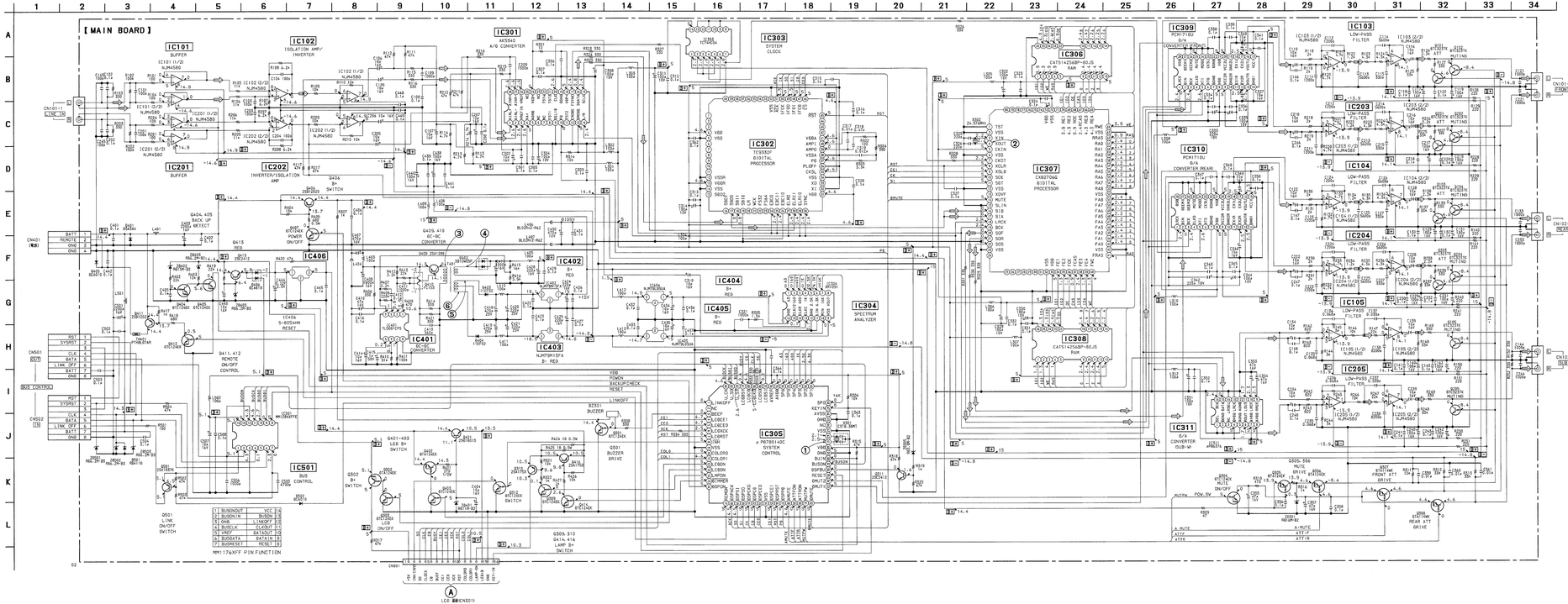
Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

【MAIN BOARD】(A SIDE)

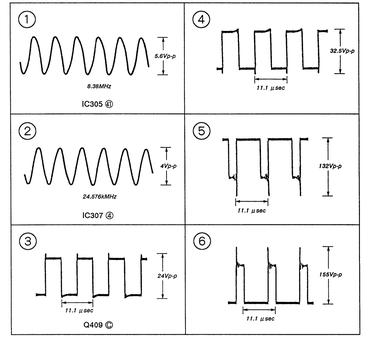
【MAIN BOARD】(B SIDE)

3-3. SCHEMATIC DIAGRAM (MAIN SECTION)

● Refer to page 37 for IC Block Diagrams.



● WAVEFORMS



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B− : B− Line
- Power voltage is dc14.4V and fed with regulated dc power supply from CN401 (REMOTE, +12V terminal)
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

• SEMICONDUCTOR LOCATION

Ref. No.	Location
D601	F - 2
D602	G - 2
D603	F - 1
D604	G - 2
D605	G - 2
D608	G - 4
D607	G - 5
D608	G - 8
D609	G - 7
D610	G - 6
D611	G - 6
D612	G - 11
D613	G - 10
D614	G - 9
D615	G - 8
D616	F - 10
D617	G - 10
D618	F - 11
IC601	C - 8
IC602	C - 4
Q601	C - 10
Q602	C - 10
ZD601	C - 10

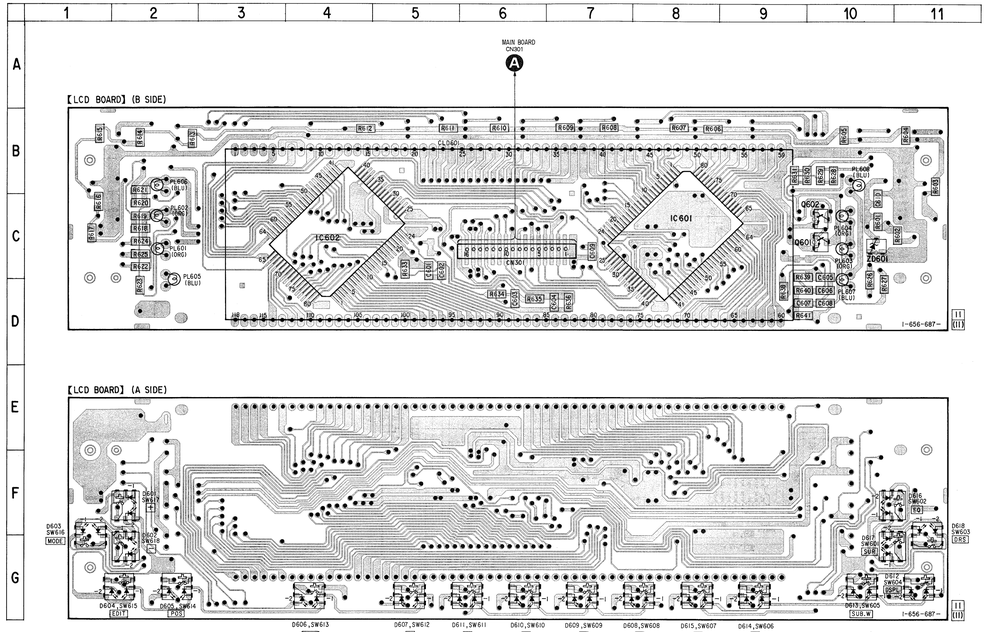
Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

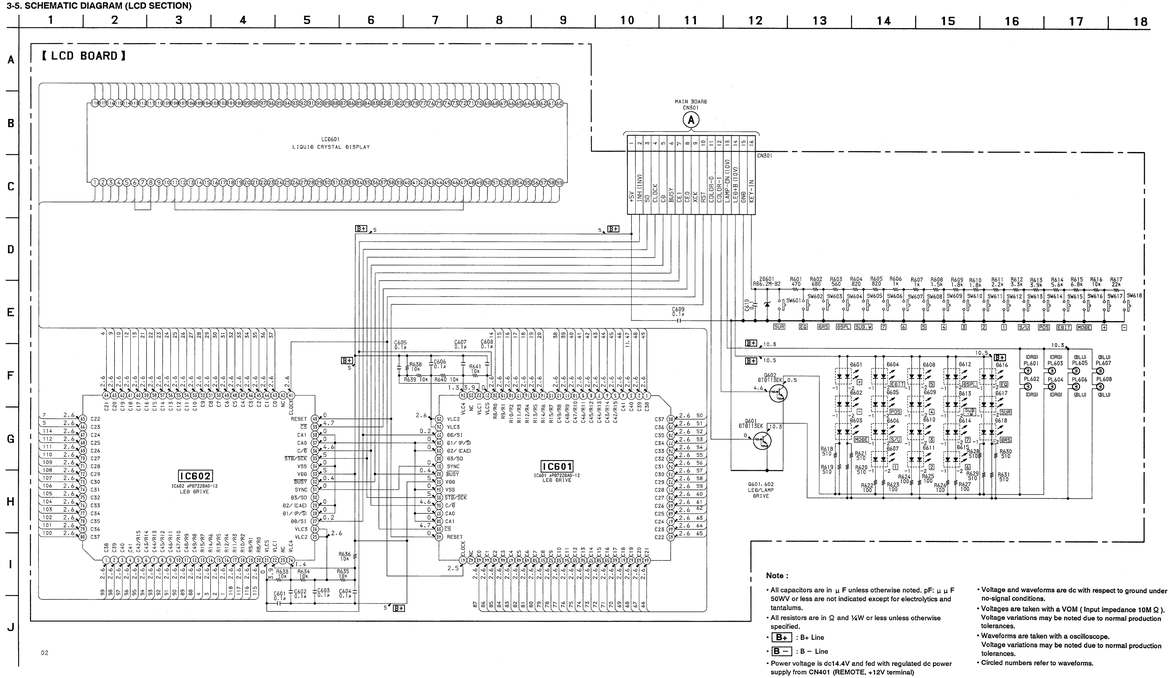
Caution :

Pattern face side : Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side : Parts on the parts face side seen from the (Component side) parts face are indicated.

3-4. PRINTED WIRING BOARDS (LCD SECTION)



3-5. SCHEMATIC DIAGRAM (LCD SECTION)

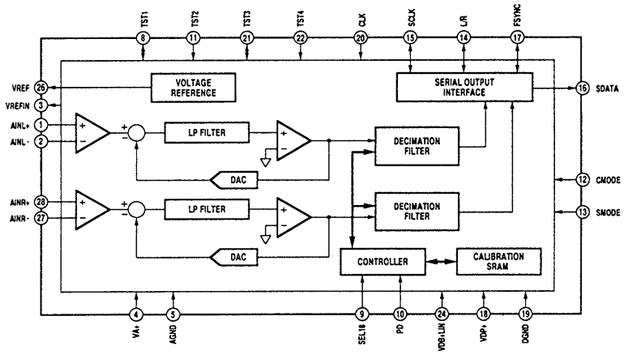


Note :

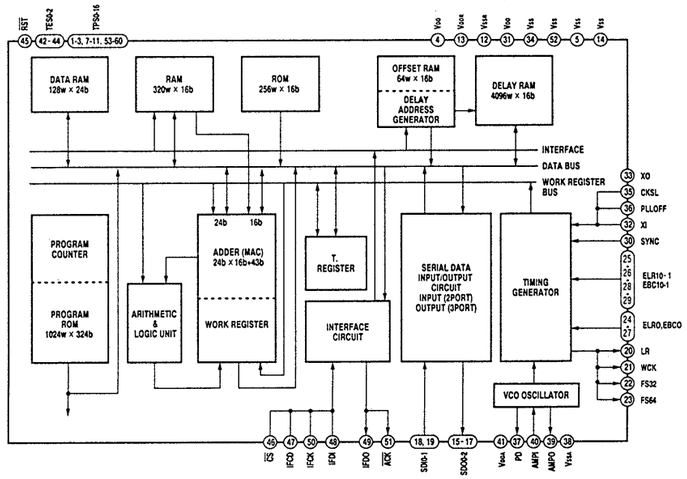
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B− : B− Line
- Power voltage is dc14.4V and fed with regulated dc power supply from CN401 (REMOTE, +12V terminal)
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

3-6. IC BLOCK DIAGRAMS

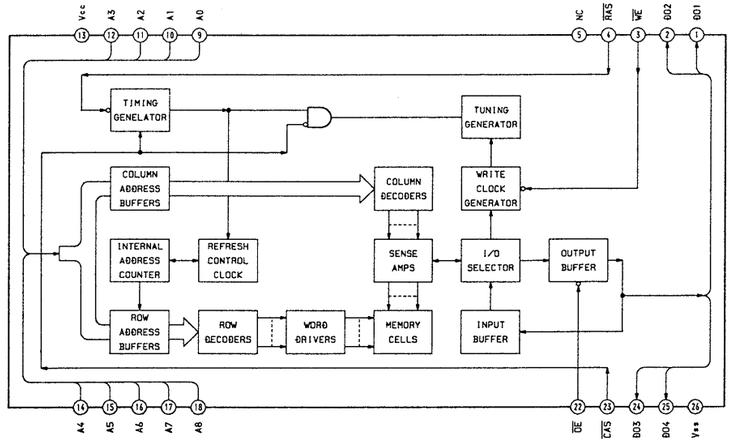
IC301 AK5340-VS



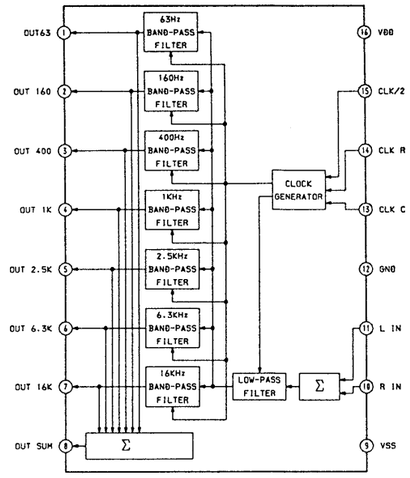
IC302 TC9332F-011



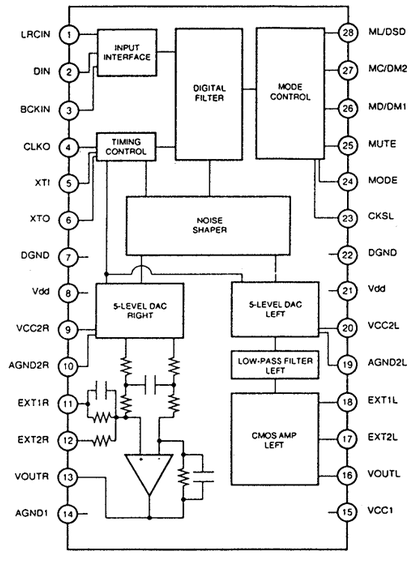
IC306, 308 CAT514256BP-80JS-DR1



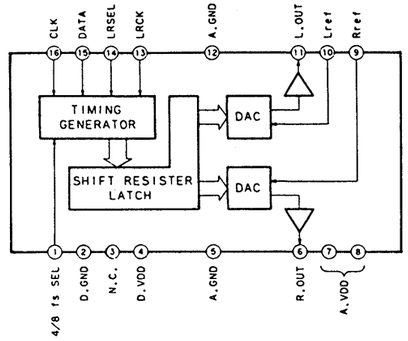
IC304 XR1091DCP



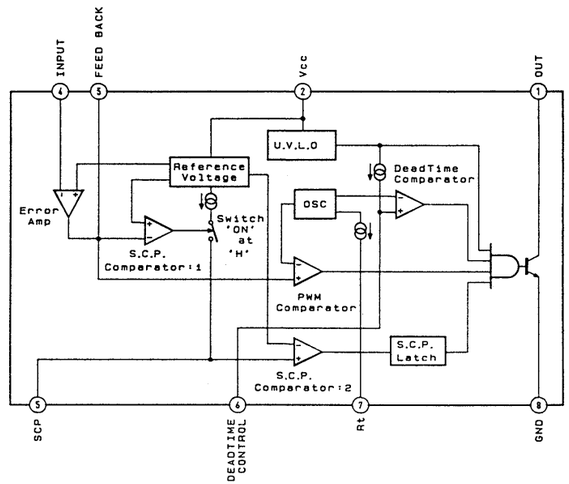
IC309, 310 PCM1710U-A



IC311 μPD6376GS



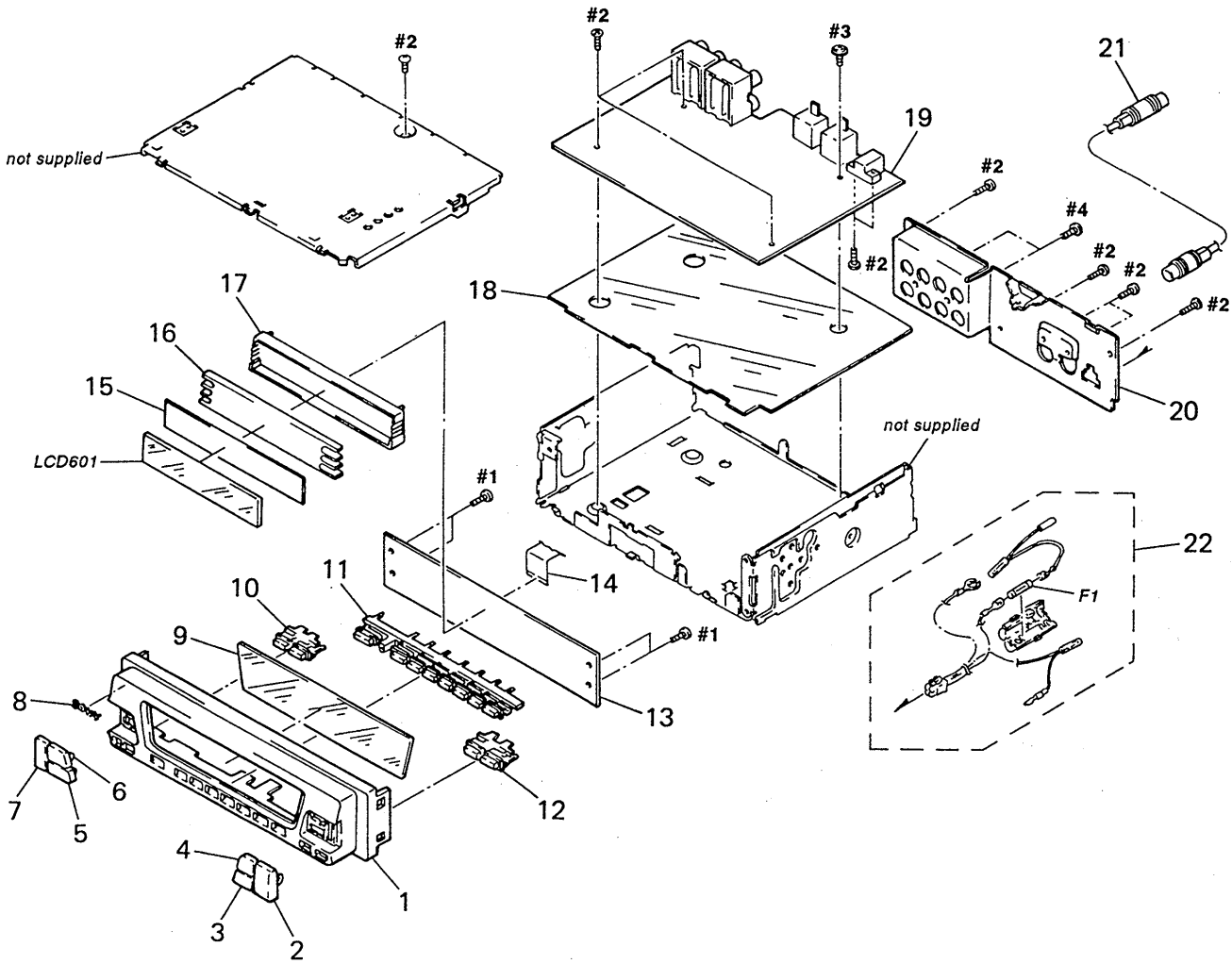
IC401 TL5001CPS



SECTION 4
EXPLODE VIEW

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	3-925-164-11	PANEL, FRONT	
2	3-923-927-01	BUTTON (1) (DRS)	
3	3-923-929-01	BUTTON (3) (SUR)	
4	3-923-931-01	BUTTON (5) (EQ)	
5	3-923-930-01	BUTTON (4) (-)	
6	3-923-932-01	BUTTON (6) (+)	
7	3-923-928-01	BUTTON (2) (MODE)	
8	3-949-015-11	EMBLEM (NO. 2. 5), SONY	
9	3-926-182-01	PLATE, TRANSPARENT	
10	3-923-933-11	BUTTON (7) (EDIT, POS)	
11	3-923-934-01	BUTTON (8) (1-7)	
12	3-923-933-01	BUTTON (7) (SUB•W, DSPL)	
* 13	A-3298-764-A	LCD BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
14	1-775-338-11	CABLE, PARALLEL 16P	
* 15	3-926-178-01	PLATE, LIGHT GUIDE	
* 16	3-926-179-01	ILLUMINATOR	
* 17	3-926-177-01	HOLDER	
* 18	3-926-176-01	INSULATOR	
* 19	A-3298-760-A	MAIN BOARD, COMPLETE	
* 20	3-926-175-01	PANEL (REAR)	
21	1-590-519-41	CORD (WITH CONNECTOR) (BUS CONTROL)	
22	1-696-710-11	CORD (WITH CONNECTOR) (POWER) (including F1)	
F1	1-532-419-11	FUSE (3. 15A 125V)	
LCD601	1-810-945-11	DISPLAY PANEL, LIQUID CRYSTAL	

LCD

SECTION 5
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description	Remark
*	A-3298-764-A	LCD BOARD, COMPLETE **********	
		< CAPACITOR >	
C601-610	1-163-038-91	CERAMIC CHIP 0.1uF	25V
		< DIODE >	
D601	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(+)
D602	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(-)
D603	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(MODE)
D604	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(EDIT)
D605	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(POS)
D606	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(S/U)
D607	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(1)
D608	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(5)
D609	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(4)
D610	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(3)
D611	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(2)
D612	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(DSPL)
D613	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(SUB W)
D614	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(7)
D615	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(6)
D616	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(EQ)
D617	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(SUR)
D618	1-762-143-11	SWITCH, KEY BOARD (WITH LED)	(DRS)
		< IC >	
IC601	8-759-348-86	IC uPD7228AG-12	
IC602	8-759-348-86	IC uPD7228AG-12	
		< LIQUID CRYSTAL DISPLAY >	
LCD601	1-810-945-11	DISPLAY PANEL, LIQUID CRYSTAL	

Ref.No.	Part No.	Description			Remark
		< PILOT LAMP >			
PL601-604	1-517-166-21	LAMP, PILOT (ORANGE) (ILLUMINATION)			
PL605-608	1-517-165-21	LAMP, PILOT (BLUE) (ILLUMINATION)			
		< TRANSISTOR >			
Q601	8-729-904-66	TRANSISTOR DTD113EK			
Q602	8-729-904-66	TRANSISTOR DTD113EK			
		< RESISTOR >			
R601	1-208-774-11	METAL GLAZE	470	0.50%	1/10W
R602	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R603	1-208-776-11	METAL GLAZE	560	0.50%	1/10W
R604	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R605	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R606	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R607	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R608	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R609	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R610	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R611	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R612	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R613	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R614	1-208-800-11	METAL GLAZE	5.6K	0.50%	1/10W
R615	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R616	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R617	1-208-814-11	METAL GLAZE	22K	0.50%	1/10W
R618-621	1-208-775-11	METAL GLAZE	510	2%	1/10W
R622-627	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R628-631	1-208-775-11	METAL GLAZE	510	2%	1/10W

Ref.No.	Part No.	Description			Remark
R633-636					
	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R638-641					
	1-208-806-11	METAL GLAZE	10K	2%	1/10W
		< SWITCH >			
SW601	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(SUR)
SW602	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(EQ)
SW603	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(DRS)
SW604	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(DSPL)
SW605	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(SUB.W)
SW606	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(7)
SW607	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(6)
SW608	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(5)
SW609	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(4)
SW610	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(3)
SW611	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(2)
SW612	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(1)
SW613	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(S/U)
SW614	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(POS)
SW615	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(EDIT)
SW616	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(MODE)
SW617	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(+)
SW618	1-762-143-11	SWITCH, KEY BOARD (WITH LED)			(-)
		< DIODE >			
ZD601	8-719-106-09	DIODE	RD6.2M-B3		
**********					
*	A-3298-760-A	MAIN BOARD, COMPLETE			
		**********			
		< BUZZER >			
BZ301	1-529-104-11	BUZZER, PIEZOELECTRIC			
		< CAPACITOR >			
C101	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C102	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C103	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C104	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C105-107					
	1-126-157-11	ELECT	10uF	20%	16V
C108	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C109	1-163-209-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-126-157-11	ELECT	10uF	20%	16V
C111	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C112	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C113	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C114	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V

Ref.No.	Part No.	Description			Remark
C115	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C116	1-126-157-11	ELECT	10uF	20%	16V
C117	1-126-023-11	ELECT	100uF	20%	16V
C118	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C119	1-126-023-11	ELECT	100uF	20%	16V
C120	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C121	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C122	1-126-157-11	ELECT	10uF	20%	16V
C123	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C124	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C125	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C126	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C127	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C128	1-126-157-11	ELECT	10uF	20%	16V
C129	1-126-023-11	ELECT	100uF	20%	16V
C130	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C131	1-126-023-11	ELECT	100uF	20%	16V
C132	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C133	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C134	1-126-022-11	ELECT	47uF	20%	16V
C135	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V
C136	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V
C137	1-163-079-00	CERAMIC CHIP	0.039uF	10%	25V
C138	1-163-058-00	CERAMIC CHIP	0.0082uF	10%	50V
C139	1-126-157-11	ELECT	10uF	20%	16V
C140	1-126-023-11	ELECT	100uF	20%	16V
C141	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C142	1-126-023-11	ELECT	100uF	20%	16V
C143	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C144	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C145	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C146-148					
	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C201	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C202	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C203	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C204	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C205-207					
	1-126-157-11	ELECT	10uF	20%	16V
C208	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C209	1-163-209-00	CERAMIC CHIP	0.0015uF	5%	50V
C210	1-126-157-11	ELECT	10uF	20%	16V
C211	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C212	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C213	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C214	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C215	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-023-11	ELECT	100uF	20%	16V

MAIN

Ref.No.	Part No.	Description			Remark
C218	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C219	1-126-023-11	ELECT	100uF	20%	16V
C220	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C221	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C222	1-126-157-11	ELECT	10uF	20%	16V
C223	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C224	1-163-207-00	CERAMIC CHIP	0.0012uF	5%	50V
C225	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C226	1-164-713-11	CERAMIC CHIP	0.0056uF	5%	50V
C227	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
C228	1-126-157-11	ELECT	10uF	20%	16V
C229	1-126-023-11	ELECT	100uF	20%	16V
C230	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C231	1-126-023-11	ELECT	100uF	20%	16V
C232	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C233	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C234	1-126-157-11	ELECT	10uF	20%	16V
C235	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V
C236	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V
C237	1-163-079-00	CERAMIC CHIP	0.039uF	10%	25V
C238	1-163-058-00	CERAMIC CHIP	0.0082uF	10%	50V
C239	1-126-157-11	ELECT	10uF	20%	16V
C240	1-126-023-11	ELECT	100uF	20%	16V
C241	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C242	1-126-023-11	ELECT	100uF	20%	16V
C243	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C244	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C245	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C246-248					
	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C301	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C302	1-126-157-11	ELECT	10uF	20%	16V
C303	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C304	1-124-994-11	ELECT	100uF	20%	10V
C306	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C307	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C308	1-124-994-11	ELECT	100uF	20%	10V
C309	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C310	1-126-157-11	ELECT	10uF	20%	16V
C311	1-124-994-11	ELECT	100uF	20%	10V
C312	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C313	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C314	1-124-994-11	ELECT	100uF	20%	10V
C315	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C316	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C317	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C318	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C319	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C320	1-163-038-91	CERAMIC CHIP	0.1uF		25V

Ref.No.	Part No.	Description			Remark
C321	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C322	1-124-994-11	ELECT	100uF	20%	10V
C323	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C324	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C325	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C326	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C327	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C328	1-124-994-11	ELECT	100uF	20%	10V
C330	1-124-994-11	ELECT	100uF	20%	10V
C331	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C332	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C333	1-124-995-11	ELECT	220uF	20%	10V
C334	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C335	1-124-994-11	ELECT	100uF	20%	10V
C336	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C337	1-126-157-11	ELECT	10uF	20%	16V
C338	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C339	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C340	1-126-157-11	ELECT	10uF	20%	16V
C341	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C342	1-124-995-11	ELECT	220uF	20%	10V
C343	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C344	1-124-994-11	ELECT	100uF	20%	10V
C345	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C346	1-126-157-11	ELECT	10uF	20%	16V
C347	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C348	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C349	1-126-157-11	ELECT	10uF	20%	16V
C350	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C351	1-124-994-11	ELECT	100uF	20%	10V
C352	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C353-355					
	1-126-022-11	ELECT	47uF	20%	16V
C356	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C357	1-126-022-11	ELECT	47uF	20%	16V
C358	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C359-361					
	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C362-364					
	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C401	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C402	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C403	1-126-234-11	ELECT	2200uF	20%	16V
C404	1-126-157-11	ELECT	10uF	20%	16V
C405	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C406	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C407	1-126-316-51	ELECT	470uF	20%	16V
C408	1-126-146-11	ELECT	1000uF	20%	16V
C410	1-126-022-11	ELECT	47uF	20%	16V

Ref.No.	Part No.	Description			Remark
C411	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C412	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C413	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C414	1-126-157-11	ELECT	10uF	20%	16V
C415	1-126-044-11	ELECT	1uF	20%	50V
C416	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C417	1-126-146-11	ELECT	1000uF	20%	16V
C418	1-126-104-11	ELECT	470uF	20%	35V
C419	1-126-104-11	ELECT	470uF	20%	35V
C420	1-128-376-11	ELECT	220uF	20%	25V
C421	1-128-376-11	ELECT	220uF	20%	25V
C422	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C423	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C424	1-124-570-11	ELECT	220uF	20%	16V
C425	1-124-570-11	ELECT	220uF	20%	16V
C426	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C427	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C428	1-124-570-11	ELECT	220uF	20%	16V
C429	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C430	1-126-373-11	ELECT	470uF	20%	10V
C431-433					
	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C434	1-126-157-11	ELECT	10uF	20%	16V
C435	1-126-157-11	ELECT	10uF	20%	16V
C436	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C437	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C438	1-126-023-11	ELECT	100uF	20%	16V
C439	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C440	1-126-023-11	ELECT	100uF	20%	16V
C441	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C442	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C443	1-126-157-11	ELECT	10uF	20%	16V
C444	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C445	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C448	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C449	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C501	1-126-234-11	ELECT	2200uF	20%	16V
C502	1-163-077-91	CERAMIC CHIP	0.1uF		50V
C503	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C504	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C505	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C506	1-163-025-11	CERAMIC CHIP	0.001uF		50V
C507	1-126-157-11	ELECT	10uF	20%	16V
C508	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-770-068-31	JACK, PIN 2P (FRONT LINE IN/OUT)			
CN102	1-770-068-31	JACK, PIN 2P (REAR/SUB.W LINEOUT)			
* CN301	1-569-933-11	SOCKET, CONNECTOR 16P			

Ref.No.	Part No.	Description	Remark
* CN401	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P (POWER)	
CN501	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL OUT)	
CN502	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
		< DIODE >	
D401	8-719-945-59	DIODE DSA3A4	
D402	8-719-054-27	DIODE SB10W05P-TC	
D403	8-719-987-67	DIODE 11EFS2	
D404	8-719-987-67	DIODE 11EFS2	
D405	8-719-990-36	DIODE DCA010	
D406	8-719-990-36	DIODE DCA010	
D501	8-719-938-75	DIODE SB05-05CP	
D502	8-719-990-36	DIODE DCA010	
		< IC >	
IC101-105			
	8-759-711-82	IC NJM4580E	
IC201-205			
	8-759-711-82	IC NJM4580E	
IC301	8-759-331-35	IC AK5340-VS	
IC302	8-759-334-15	IC TC9332F-011	
IC303	8-759-235-14	IC TC74HC04AF-TP2	
IC304	8-759-991-11	IC XR1091DCP	
IC305	8-759-348-85	IC uPD78014GC-663-AB8	
IC306	8-759-177-33	IC CAT514256BP-80JS-DR1	
IC307	8-752-352-25	IC CXD2706Q	
IC308	8-759-177-33	IC CAT514256BP-80JS-DR1	
IC309	8-759-185-27	IC PCM1710U-A	
IC310	8-759-185-27	IC PCM1710U-A	
IC311	8-759-148-30	IC uPD6376GS	
IC401	8-759-983-96	IC TL5001CPS	
IC402	8-759-982-36	IC RC78M15FA	
IC403	8-759-701-70	IC NJM79M15FA	
IC404	8-759-711-58	IC NJM78L05UA	
IC405	8-759-045-17	IC NJM79L05UA	
IC406	8-759-940-45	IC S-8054HN-CB	
IC501	8-759-284-87	IC MM1284XFFE	
		< COIL >	
L301-308			
	1-410-521-11	INDUCTOR 100uH	
L310	1-410-521-11	INDUCTOR 100uH	
L312	1-410-521-11	INDUCTOR 100uH	
L401	1-421-369-00	COIL, CHOKE	
L403	1-402-971-11	COIL, CHOKE 100uH	
L404	1-410-397-21	FERRITE BEAD INDUCTOR	
L405	1-402-971-11	COIL, CHOKE 100uH	
L406	1-410-397-21	FERRITE BEAD INDUCTOR	
L407	1-410-397-21	FERRITE BEAD INDUCTOR	
L408	1-410-521-11	INDUCTOR 100uH	

MAIN

Ref.No.	Part No.	Description			Remark
L409	1-410-521-11	INDUCTOR	100uH		
L410	1-414-189-31	INDUCTOR	100uH		
L411	1-414-189-31	INDUCTOR	100uH		
L412	1-410-521-11	INDUCTOR	100uH		
L413	1-410-521-11	INDUCTOR	100uH		
L501	1-421-369-00	COIL, CHOKE			
L502	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q101-105					
	8-729-015-39	TRANSISTOR	DTC323TK		
Q201-205					
	8-729-015-39	TRANSISTOR	DTC323TK		
Q301	8-729-901-00	TRANSISTOR	DTC124EK		
Q302	8-729-901-05	TRANSISTOR	DTA124EK		
Q303	8-729-901-00	TRANSISTOR	DTC124EK		
Q304	8-729-901-00	TRANSISTOR	DTC124EK		
Q305	8-729-901-05	TRANSISTOR	DTA124EK		
Q306	8-729-901-05	TRANSISTOR	DTA124EK		
Q307	8-729-923-79	TRANSISTOR	DTA114WK-T147		
Q308	8-729-923-79	TRANSISTOR	DTA114WK-T147		
Q309	8-729-901-00	TRANSISTOR	DTC124EK		
Q310	8-729-230-46	TRANSISTOR	2SA1162-YG		
Q311	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q312	8-729-901-00	TRANSISTOR	DTC124EK		
Q401	8-729-922-65	TRANSISTOR	2SD1760F5-PQR		
Q402	8-729-901-05	TRANSISTOR	DTA124EK		
Q403-405					
	8-729-901-00	TRANSISTOR	DTC124EK		
Q406	8-729-922-65	TRANSISTOR	2SB1202FAST		
Q407	8-729-822-84	TRANSISTOR	DTC124EK		
Q409	8-729-032-70	TRANSISTOR	2SA1289		
Q410	8-729-032-68	TRANSISTOR	FC153-TL		
Q411	8-729-822-84	TRANSISTOR	2SB1202FAST		
Q412	8-729-901-00	TRANSISTOR	DTC124EK		
Q413	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q414	8-729-901-00	TRANSISTOR	DTC124EK		
Q416	8-729-230-46	TRANSISTOR	2SA1162-YG		
Q501	8-729-216-22	TRANSISTOR	2SA1162-G		
		< RESISTOR >			
R101	1-216-174-00	METAL GLAZE	100	2%	1/8W
R102	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R103	1-216-186-00	METAL GLAZE	330	2%	1/8W
R104	1-216-174-00	METAL GLAZE	100	2%	1/8W
R105	1-208-511-11	METAL GLAZE	11K	2%	1/8W
R106	1-208-511-11	METAL GLAZE	11K	2%	1/8W
R107	1-208-505-11	METAL GLAZE	6.2K	2%	1/8W
R108	1-208-505-11	METAL GLAZE	6.2K	2%	1/8W

Ref.No.	Part No.	Description			Remark
R109	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R110	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R111	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R112	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R113	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R114	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R115	1-216-186-00	METAL GLAZE	330	2%	1/8W
R116	1-216-186-00	METAL GLAZE	330	2%	1/8W
R117	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R118	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R119	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R120	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R121	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R122	1-208-488-11	METAL GLAZE	1.2K	2%	1/8W
R123	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R124	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R125	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R126	1-216-206-00	METAL GLAZE	2.2K	2%	1/8W
R127	1-216-186-00	METAL GLAZE	330	2%	1/8W
R128	1-216-182-00	METAL GLAZE	220	2%	1/8W
R129	1-216-182-00	METAL GLAZE	220	2%	1/8W
R130	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R131	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R132	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R133	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R134	1-208-488-11	METAL GLAZE	1.2K	2%	1/8W
R135	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R136	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R137	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R138	1-216-206-00	METAL GLAZE	2.2K	2%	1/8W
R139	1-216-186-00	METAL GLAZE	330	2%	1/8W
R140	1-216-182-00	METAL GLAZE	220	2%	1/8W
R141	1-216-182-00	METAL GLAZE	220	2%	1/8W
R142	1-208-484-11	METAL GLAZE	820	2%	1/8W
R143	1-208-484-11	METAL GLAZE	820	2%	1/8W
R144	1-208-497-11	METAL GLAZE	3K	2%	1/8W
R145	1-208-497-11	METAL GLAZE	3K	2%	1/8W
R146	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R147	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R148	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R149	1-216-186-00	METAL GLAZE	330	2%	1/8W
R150	1-216-182-00	METAL GLAZE	220	2%	1/8W
R151	1-216-182-00	METAL GLAZE	220	2%	1/8W
R152	1-208-770-11	METAL GLAZE	330	2%	1/10W
R201	1-216-174-00	METAL GLAZE	100	2%	1/8W
R202	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R203	1-216-186-00	METAL GLAZE	330	2%	1/8W
R204	1-216-174-00	METAL GLAZE	100	2%	1/8W
R205	1-208-511-11	METAL GLAZE	11K	2%	1/8W

Ref. No.	Part No.	Description			Remark
R206	1-208-511-11	METAL GLAZE	11K	2%	1/8W
R207	1-208-505-11	METAL GLAZE	6.2K	2%	1/8W
R208	1-208-505-11	METAL GLAZE	6.2K	2%	1/8W
R209	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R210	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R211	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R212	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R213	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R214	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R215	1-216-186-00	METAL GLAZE	330	2%	1/8W
R216	1-216-186-00	METAL GLAZE	330	2%	1/8W
R217	1-216-238-00	METAL GLAZE	47K	2%	1/8W
R218	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R219	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R220	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R221	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R222	1-208-488-11	METAL GLAZE	1.2K	2%	1/8W
R223	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R224	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R225	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R226	1-216-206-00	METAL GLAZE	2.2K	2%	1/8W
R227	1-216-186-00	METAL GLAZE	330	2%	1/8W
R228	1-216-182-00	METAL GLAZE	220	2%	1/8W
R229	1-216-182-00	METAL GLAZE	220	2%	1/8W
R230	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R231	1-208-493-11	METAL GLAZE	2K	2%	1/8W
R232	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R233	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R234	1-208-488-11	METAL GLAZE	1.2K	2%	1/8W
R235	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R236	1-208-501-11	METAL GLAZE	4.3K	2%	1/8W
R237	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R238	1-216-206-00	METAL GLAZE	2.2K	2%	1/8W
R239	1-216-186-00	METAL GLAZE	330	2%	1/8W
R240	1-216-182-00	METAL GLAZE	220	2%	1/8W
R241	1-216-182-00	METAL GLAZE	220	2%	1/8W
R242	1-208-484-11	METAL GLAZE	820	2%	1/8W
R243	1-208-484-11	METAL GLAZE	820	2%	1/8W
R244	1-208-497-11	METAL GLAZE	3K	2%	1/8W
R245	1-208-497-11	METAL GLAZE	3K	2%	1/8W
R246	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R247	1-216-230-00	METAL GLAZE	22K	2%	1/8W
R248	1-216-234-00	METAL GLAZE	33K	2%	1/8W
R249	1-216-186-00	METAL GLAZE	330	2%	1/8W
R250	1-216-182-00	METAL GLAZE	220	2%	1/8W
R251	1-216-182-00	METAL GLAZE	220	2%	1/8W
R252	1-208-770-11	METAL GLAZE	330	2%	1/10W
R301	1-216-001-00	METAL CHIP	10	5%	1/10W
R302	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R303	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R304	1-208-772-11	METAL GLAZE	390	2%	1/10W
R305	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R306	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R307	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R308	1-208-770-11	METAL GLAZE	330	2%	1/10W
R309	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R310	1-208-774-11	METAL GLAZE	470	2%	1/10W
R311	1-216-222-00	METAL GLAZE	10K	2%	1/8W
R312	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R313	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R314	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R315	1-208-822-11	METAL GLAZE	47K	2%	1/10W
R316	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R317	1-208-822-11	METAL GLAZE	47K	2%	1/10W
R318	1-208-822-11	METAL GLAZE	47K	2%	1/10W
R319	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R320	1-208-822-11	METAL GLAZE	47K	2%	1/10W
R321	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R322	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R323-334					
	1-208-770-11	METAL GLAZE	330	2%	1/10W
R401	1-220-268-11	METAL GLAZE	270	5%	1/2W
R402	1-208-814-11	METAL GLAZE	22K	2%	1/10W
R403	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R404	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R405	1-220-150-11	METAL GLAZE	680	10%	1/2W
R406	1-208-770-11	METAL GLAZE	330	2%	1/10W
R407	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R408	1-218-760-11	METAL GLAZE	220K	2%	1/10W
R409	1-208-774-11	METAL GLAZE	470	2%	1/10W
R410	1-216-698-11	METAL CHIP	91K	0.5%	1/10W
R411	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R412	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R413	1-208-814-11	METAL GLAZE	22K	2%	1/10W
R414	1-208-473-11	METAL GLAZE	300	2%	1/8W
R415	1-208-811-11	METAL CHIP	16K	0.50%	1/10W
R416	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R417	1-208-782-11	METAL GLAZE	1K	2%	1/8W
R418	1-220-150-11	METAL GLAZE	680	10%	1/2W
R419	1-208-814-11	METAL GLAZE	22K	2%	1/10W
R420	1-208-822-11	METAL GLAZE	47K	2%	1/10W
R421	1-208-473-11	METAL GLAZE	300	2%	1/8W
R424	1-218-281-11	METAL GLAZE	18	5%	1/2W
R425	1-218-281-11	METAL GLAZE	18	5%	1/2W
R426	1-208-806-11	METAL GLAZE	10K	2%	1/10W
R427	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R501	1-216-627-11	METAL CHIP	100	0.5%	1/10W

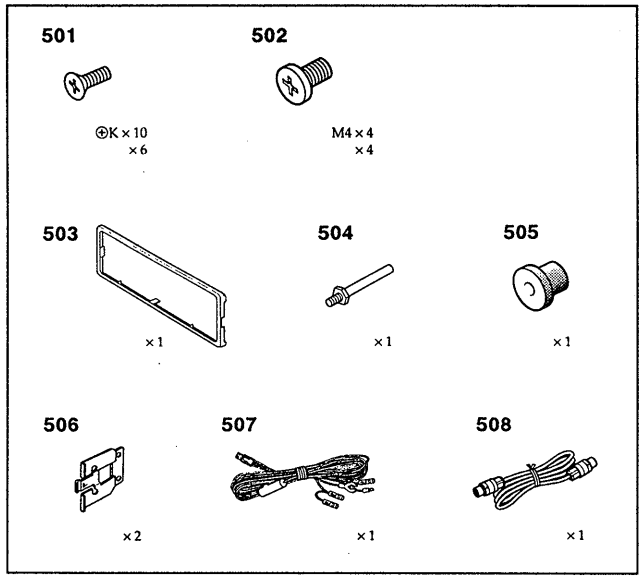
MAIN SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description	Remark
R502-504	1-208-822-11	METAL GLAZE 47K 2% 1/10W	
		< TRANSFORMER >	
T401	1-427-942-11	TRANSFORMER, DC-DC CONVERTER	
		< THERMISTOR >	
TH401	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510	
		< VIBRATOR >	
X301	1-579-599-11	VIBRATOR, CERAMIC (8.38MHz)	
X302	1-760-682-11	VIBRATOR, CRYSTAL (24.576MHz)	
		< DIODE >	
ZD301	8-719-106-98	DIODE RD16M-B2	
ZD305	8-719-105-40	DIODE RD3.0M-B2	
ZD401	8-719-106-61	DIODE RD11M-B1	
ZD402	8-719-106-89	DIODE RD15M-B2	
ZD403	8-719-106-09	DIODE RD6.2M-B3	
ZD405	8-719-106-09	DIODE RD6.2M-B3	
ZD501-503	8-719-106-09	DIODE RD6.2M-B3	
		MISCELLANEOUS	
14	1-775-338-11	CABLE, PARALLEL 16P	
F1	1-532-419-11	FUSE (3.15A 125V)	
		ACCESSORIES & PACKING MATERIALS	
	3-800-145-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-800-146-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH)	

HARDWARE LIST

#1	7-621-255-45	SCREW +PTT 2×6 (S)
#2	7-621-770-87	SCREW +PTT 2.6×5 (S)
#3	7-621-770-67	SCREW +PWH 2.6×6
#4	7-682-548-04	SCREW +PTT 3×8 (S)

MOUNTING HARDWARE



Ref.No.	Part No.	Description	Remark
501	X-3366-405-1	SCREW ASSY (EXP), FITTING	
502	3-344-561-21	SCREW (M4×4)	
* 503	3-916-161-01	FRAME, FITTING	
504	3-386-828-01	SCREW, FITTING	
505	3-349-410-01	BUSHING	
506	3-383-345-01	SPRING, FITTING	
507	1-590-519-41	CORD (WITH CONNECTOR) (BUS CONTROL)	
508	1-696-710-11	CORD (WITH CONNECTOR) (POWER) (including F1)	

9-923-410-11

Sony Corporation
Mobile Electronics Company

English
95F027036-1
Printed in Singapore
©1995.6
Published by Home A&V Products Div.
Quality Engineering Dept.

XDP-766EQ

SONY
SERVICE MANUAL

US Model
Canadian Model

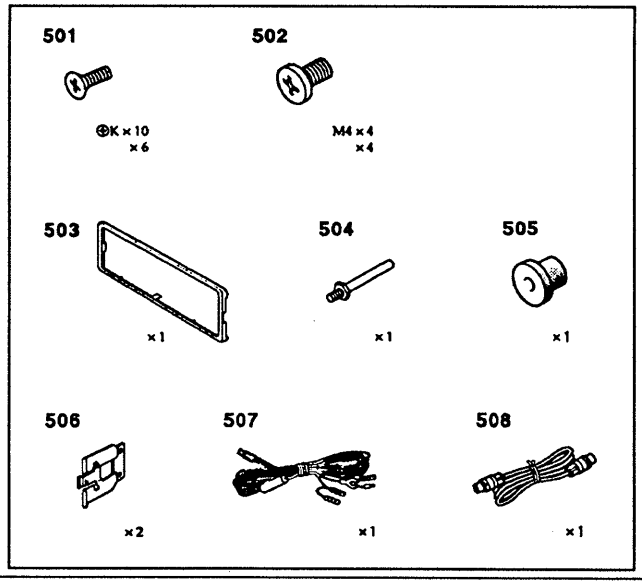
CORRECTION-1

Correct your service manual as shown below.

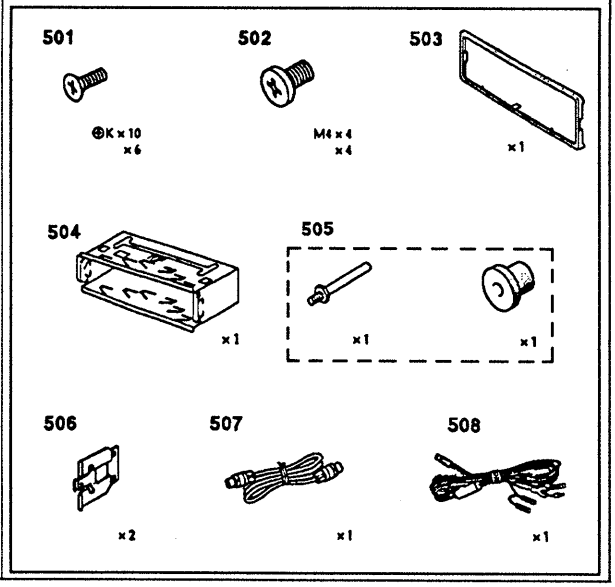
——— : indicates corrected portion.

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
46	501	X-3366-405-1	SCREW ASSY (EXP), FITTING	X-3369-934-1	SCREW ASSY
	502	3-344-561-21	SCREW (M4×4)	3-344-561-21	SCREW (M4×4)
	* 503	3-916-161-01	FRAME, FITTING	3-911-173-01	COLLAR
	504	3-386-828-01	SCREW, FITTING	3-916-161-01	FRAME, FITTING
	505	3-349-410-01	BUSHING	X-3366-405-1	SCREW ASSY (EXP), FITTING
	506	3-383-345-01	SPRING, FITTING	3-383-345-01	SPRING, FITTING
	507	1-590-519-41	CORD (WITH CONNECTOR) (BUS CONTROL)	1-590-519-41	CORD (WITH CONNECTOR) (BUS CONTROL)
	508	1-696-710-11	CORD (WITH CONNECTOR) (POWER) (including F1)	1-696-710-11	CORD (WITH CONNECTOR) (POWER) (including F1)

MOUNTING HARDWARE



MOUNTING HARDWARE



(SPM-96018)

9-923-410-91

Sony Corporation
Mobile Electronics Company

English
96C0413-1D
Printed in Japan

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Published by Home A&V Products Div. Quality Engineering Dept.